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Docket No.: 210356US0

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

RE: Application Serial No.: 09/903,769

Applicants: Laurence SEBILLOTTE-ARNAUD, et al.

Filing Date: July 13, 2001

For: COSMETIC CLEANING COMPOSITION

Group Art Unit: 1751 Examiner: B. Mruk

SIR:

Attached hereto for filing are the following papers:

APPEAL BRIEF w/APPENDIX (In Triplicate); and ATTACHMENT (Tabs A-C from the International Cosmetic Ingredient Dictionary and Handbook).

Our credit card payment form in the amount of \$330.00 is attached covering any required fees. In the event any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, including any fees required under 37 C.F.R 1.136 for any necessary Extension of Time to make the filing of the attached documents timely, please charge or credit the difference to our Deposit Account No. 15-0030. Further, if these papers are not considered timely filed, then a petition is hereby made under 37 C.F.R. 1.136 for the necessary extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF

Laurence SEBILLOTTE-ARNAUD, et al. :

EXAMINER: B. MRUK

SERIAL NO: 09/903,769

FILED: JULY 13, 2001

GROUP ART UNIT: 1751

FOR: COSMETIC CLEANSING COMPOSITION

APPEAL BRIEF

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

Appellants submit this brief in response to the Final Rejection dated October 22,

2003.

REAL PARTY IN INTEREST

The real party in interest herein is L'Oréal S.A. of Paris, France.

05/24/2004 JADD01

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RELATED APPEALS AND INTERFERENCES

Real party in interest L'Oréal S.A. filed an Appeal Brief in connection with U.S. patent application serial no. 09/903,785 on May 17, 2004. This application may be related to the present application.

STATUS OF CLAIMS

Claims 1-4 and 6-29 are pending, although claims 17-20 have been withdrawn from consideration. Because withdrawn method claims 17-20 depend from claim 1, Appellants respectfully request that these claims be reinstated in the present application and considered on appeal.

STATUS OF AMENDMENTS

All amendments and remarks filed in this case have been entered and considered.

SUMMARY OF INVENTION

The invention relates to compositions containing, in a physiologically acceptable medium, (1) at least one foaming surfactant, (2) 1-15 % by weight of at least one hydrophobic silica, and (3) at least one oxyalkylenated compound. (Specification at page 3, lines 9-13 and page 5, line 2). In the invention compositions, the oxyalkylenated compound is a thickening agent. (Specification at page 3, lines 16-20). Furthermore, the invention compositions contain at least 35 % by weight of water. (Specification at page 4, lines 5-9).

The invention also relates to methods of using the invention compositions to cleanse skin and/or hair, to remove make-up, to treat greasy skin, and/or to disinfect skin.

(Specification at page 20, line 17 through page 21, line 12).

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ISSUE

- Whether Claims 1-4, 6-13, 16, 21, 22, 23, 25 and 27-29 Are Anticipated By Uemura.
- 2. Whether The Pending Claims Are Obvious Over Glenn.

GROUPING OF CLAIMS

The claims do not stand or fall together. Each claim stands individually, and in the argument section provided below Appellants explain why the claims are each separately patentable, one from the other.

ARGUMENT

The invention compositions require the presence of (1) at least one foaming surfactant, (2) 1-15 % by weight of at least one hydrophobic silica, and (3) at least one oxyalkylenated compound. Together, these required compounds allow the preparation of foaming products having unique viscosity characteristics. Specifically, synergism between the hydrophobic silica and the oxyalkylenated compound allows the invention compositions to be unexpectedly and surprisingly thick.

As demonstrated in comparative examples 1 and 2 set forth on page 22 of the present specification, the presence of an oxyalkylenated compound yields a composition having a viscosity of 59 poises, while the presence of hydrophobic silica yields a composition having a viscosity of 1-100 centipoises. Based on the thickness of these compositions, one would

expect a composition having both of these compounds to have a viscosity of no more than 60 poises.

However, as demonstrated in invention example 1 on page 22, the invention composition having both of these compounds actually has a thickness of <u>97 poises</u>, approximately 65% greater thickness than would have been expected based on the thickness of the individual comparative examples. Thus, the invention compositions represent an unexpected advance in the art.

Regarding the §102 rejection, <u>Uemura</u>'s example 7 does not contain a hydrophobic silica or a foaming surfactant. Accordingly, this rejection is improper.

In an attempt to support the § 102 rejection, the Examiner relies upon the unsupported beliefs that the silica in <u>Uemura</u>'s example 7 is inherently hydrophobic and that Appellants have the burden of proving that such silica is hydrophilic to overcome this rejection. These beliefs are wrong.

First, it cannot be assumed that the silica in <u>Uemura</u>'s example 7 is hydrophobic. Silica is not inherently hydrophobic. Rather, it is generally hydrophilic (but can be modified so that it is hydrophobic). Silica is usually desiccant. Because <u>Uemura</u> does not expressly state that the silica in his example 7 is modified so as to be hydrophobic, it does not necessarily follow that <u>Uemura</u>'s silica is hydrophobic. Indeed, given that silica is hydrophilic unless modified, it is more likely that <u>Uemura</u>'s silica is <u>hydrophilic</u>. Because it does not necessarily follow that the silica in <u>Uemura</u>'s example 7 is hydrophobic, example 7

¹ See, U.S. patents 5,843,407 (col. 5, lines 60-62) and 4,119,712 (col. 1, lines 39-42) submitted with Appellants' January 22, 2004, Request for Reconsideration.

does not inherently contain hydrophobic silica, making §102 rejection improper. *See, Eli Lilly & Co. v. Barr Laboratories, Inc.*, 251 F.3d 955 (Fed. Cir. 2001)(inherent anticipation requires that the claimed invention <u>necessarily result</u> from the prior art disclosure).

Second, to the extent Appellants have any burden of proof on this issue, it is not the burden of proving that example 7's silica is hydrophilic. Rather, Appellants need only demonstrate that the silica in example 7 is not <u>necessarily</u> hydrophobic (that is, that the silica is not inherently hydrophobic) to overcome the rejection. Appellants have satisfied this burden. The only evidence of record, which was submitted by Appellents,² demonstrates that silica is generally hydrophilic unless modified, and that <u>Uemura</u> does not indicate that example 7's silica has been modified in any way.

Similarly, the Examiner relies upon the mistaken belief that <u>Uemura</u>'s example 7 contains a foaming surfactant to support the §102 rejection. However, the ethoxylated castor oil in example 7 is <u>not</u> a foaming surfactant.³ The Examiner has not presented any evidence to the contrary. Moreover, the glycerol derivative in example 7 (1-hexyl-3-undecamethylhexasiloxane propynyl glycerol) is an "oil component" for combination with <u>Uemura</u>'s polymers, not a foaming surfactant. (See, <u>Uemura</u> (B1 version) at page 3, line 57 through page 4, line 10). Again, the Examiner has not presented any evidence to the contrary,

² See footnote 1.

³ See Tab A which is the International Cosmetic Ingredient Dictionary and Handbook's entry for PEG-40 hydrogenated castor oil. The Dictionary identifies PEG-40 hydrogenated castor oil as an <u>emulsifying</u> surfactant, not a cleansing surfactant.

See also, Tabs B and C which are the Dictionary's listings for cleansing and emulsifying surfactants, respectively. Again, PEG-40 hydrogenated castor oil is identified as an emulsifying surfactant, <u>not</u> a cleansing surfactant.

only unsupported assertions. Thus, <u>Uemura</u> does not contain a foaming surfactant either, making the §102 rejection improper for this reason as well.

Regarding the §103 rejections based on the <u>Glenn</u> references (collectively referred to as "<u>Glenn</u>"), <u>Glenn</u> must motivate or suggest to one skilled in the art to combine all three required ingredients into a single composition for the invention compositions to be *prima* facie obvious under 35 U.S.C. §103. <u>Glenn</u>, however, does not provide the necessary suggestion or motivation. In particular, <u>Glenn</u> does not teach or suggest adding an oxyalkylenated <u>thickening agent</u> to his compositions. Accordingly, <u>Glenn</u> does not teach or suggest the invention compositions or methods.

Glenn does not disclose or suggest adding oxyalkylenated thickening agents to his compositions. For oxyalkylenated compounds to be thickening agents, they must have a substantial degree of oxyalkylenation. (See, pages 6-12 of the present specification). Glenn neither teaches nor suggests such compounds. Rather, Glenn discloses oxyalkenylated compounds suitable for use in his compositions as humectants, solutes and surfactants. Given the purpose for which Glenn includes such compounds in his compositions, these compounds are not going to have a substantial degree of oxyalkylenation, which means that they will not be thickening agents. This is particularly true in view of the fact that Glenn's compositions are liquid.

In support of the § 103 rejections, the Examiner asserts that <u>Glenn</u>'s disclosing the use of polyethylene glycol as a humectant/solute discloses the use of polyethylene glycol as a thickening agent. This assertion overlooks the fact that the present application discloses the

use of polyethylene glycols which are not thickening agents as humectants/solutes (see, page 19, line 12) as well as the use of different polyethylene glycols as thickening agents (see, page 7, line 10 et seq.). Clearly, polyethylene glycols which are not thickening agents differ from those which are thickening agents in the context of the present invention, so Glenn's disclosure of those which are not thickening agents cannot disclose or suggest the required thickening agents.

The significance of the requirement that the required oxyalkylenated compounds be thickening agents is demonstrated by the examples in the present specification. Comparative example 2 (page 22) does not contain PEG-120 methylgluclose dioleate, an oxyalkylenated thickening agent, but it does contain two of Glenn's acceptable solutes/humectants, sorbitol and glycerol. (See, Glenn at col. 13, lines 14-15). This composition has a viscosity of 1-100 centipoises. Thus, compositions containing only Glenn's solutes/humectants result in unacceptable, non-viscous products. However, when thickening agent PEG-120 methylgluclose dioleate is added, the resulting composition is substantially more viscous, having a viscosity of 97 poises. (Example 1, page 22). Thus, adding the claimed oxyalkylenated compound in a composition thickening effective amount results in a product having superior, more desirable properties, whereas adding Glenn's solutes/humectants does not.

Even assuming that a *prima facie* case of obviousness has been established – which is not the case – the unexpected viscosity properties associated with the invention compositions set out earlier in this argument are sufficient to rebut such a hypothetical case of *prima facie* obviousness.

In view of the above, Appellants respectfully submit that the present claims are in condition for allowance, and that the pending rejection should be REVERSED.

Each dependent claim similarly points out and describes a patentable invention neither disclosed nor suggested by the applied prior art. These claims themselves are separately patentable.

Claim 2 is a composition claim further requiring the presence of 35-95% water. Both Uemura and Glenn neither teach nor suggest compositions having a foaming surfactant, 1-15% hydrophobic silica, an oxyalkylenated compounds and 35-95% water, nor do they recognize or suggest any benefits associated with such compositions.

Claims 3 and 29, each separately patentable, are composition claims which further requires the composition to have specific viscosity properties. Nowhere does <u>Uemura</u> or <u>Glenn</u> describe or allude to compositions having such characteristics, or to any benefits resulting from a composition having such viscosity properties.

Claims 4 and 23-26, each separately patentable, further require the presence of specific amounts of hydrophobic silica. <u>Uemura</u> and <u>Glenn</u> neither teach nor suggest compositions having a foaming surfactant, the amounts of hydrophobic silica specified by these claims, and an oxyalkylenated compound, nor do they recognize or suggest any benefits associated with such compositions.

Claims 6 and 7, each separately patentable, are composition claims further requiring the presence of specific hydrophobic silicas. <u>Uemura</u> and <u>Glenn</u> neither teach nor suggest compositions having a foaming surfactant, the hydrophobic silicas specified in these claims.

and an oxyalkylenated compound, nor do they recognize or suggest any benefits associated with such compositions.

Claim 8 is a composition claim further requiring the presence of 1-20% oxyalkylenated compound. <u>Uemura</u> and <u>Glenn</u> neither teach nor suggest compositions having a foaming surfactant, a hydrophobic silica, and 1-20% oxyalkylenated compound, nor do they recognize or suggest any benefits associated with such compositions.

Claims 9-11, 22 and 27-28, each separately patentable, are composition claims requiring the presence of specific oxyalkylenated thickening compounds. <u>Uemura</u> and <u>Glenn</u> neither teach nor suggest compositions having a foaming surfactant, a hydrophobic silica, and the oxyalkylenated compounds specified in these claims, nor do they recognize or suggest any benefits associated with such compositions.

Claims 12, 14 and 15, each separately patentable, are composition claims further requiring the presence of specific surfactants. <u>Uemura</u> and <u>Glenn</u> neither teach nor suggest compositions having the foaming surfactants specified in the claims, a hydrophobic silica, and an oxyalkylenated compound, nor do they recognize or suggest any benefits associated with such compositions.

Claim 13 is a composition claim further requiring the presence of 2-50% foaming surfactant. <u>Uemura</u> and <u>Glenn</u> neither teach nor suggest compositions having 2-50% foaming surfactant, a hydrophobic silica, and an oxyalkylenated compound, nor do they recognize or suggest any benefits associated with such compositions.

Claim 16 is a composition claim further requiring the presence of specific solvents.

<u>Uemura</u> and <u>Glenn</u> neither teach nor suggest compositions having a foaming surfactant, 1-

Response to Final Rejection dated October 22, 2003

15% hydrophobic silica, an oxyalkylenated compound and the solvents specified in this claim, nor do they recognize or suggest any benefits associated with such compositions.

Claims 17-20, each separately patentable, are method claims further requiring use of the invention compositions to cleanse skin and/or hair, to remove make-up, to treat greasy skin, and/or to disinfect skin, respectively. Nowhere do <u>Uemura</u> ord <u>Glenn</u> describe or allude to using compositions having a foaming surfactant, 1-15% hydrophobic silica, and an oxyalkylenated compound for such purposes, or to any benefits resulting from such use of such compositions.

Claim 21 is a composition claim which further requires the composition to be a face mask. Nowhere do <u>Uemura</u> and <u>Glenn</u> describe or allude to compositions having a foaming surfactant, 1-15% hydrophobic silica, and an oxyalkylenated compound applied as a face mask, or to any benefits resulting from such a face mask.

Application No. 09/903,769 Response to Final Rejection dated October 22, 2003

Accordingly, in view of the above remarks and reasons explaining the patentable distinctness of the presently appealed claims over the applied prior art, Appellants request that the Examiner's rejections all be REVERSED.

Respectfully submitted,

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APPENDIX

Claim 1 (Previously Presented): A cleansing composition, comprising:

(1) at least one foaming surfactant, (2) at least one hydrophobic silica and (3) at least one oxyalkylenated compound thickening agent in a physiologically acceptable aqueous medium comprising at least 35% by weight of water relative to the total weight of the composition, wherein the amount of hydrophobic silica ranges from 1% to 15% on an active material weight basis relative to the total weight of the composition.

Claim 2 (Original): The composition of Claim 1, which comprises from 35% to 95% by weight of water relative to the total weight of the composition.

Claim 3 (Original): The composition of Claim 1, which has a viscosity ranging from 7 to 20 Pa·s.

Claim 4 (Previously Presented): The composition of Claim 22, wherein the amount of silica(s) is at least 1% on an active material weight basis relative to the total weight of the composition.

Claim 5 (Canceled).

Claim 6 (Original): The composition of Claim 1, wherein the hydrophobic silica is selected from the group consisting of amorphous silicas of pyrogenic origin.

Claim 7 (Original): The composition of Claim 1, wherein the hydrophobic silica is selected from the group consisting of silicas having a specific surface ranging from 50 to 500 m²/g, a number-average particle size ranging from 3 to 50 nm and a compacted density ranging from 40 to 200 g/1.

Claim 8 (Original): The composition of Claim 1, wherein the amount of oxyalkylenated compound ranges from 1% to 20% on an active material weight basis relative to the total weight of the composition.

Claim 9 (Previously Presented): The composition of Claim 1, wherein the oxyalkylenated compound is selected from the group consisting of polyethylene glycols, polyethylene glycol esters, polypropylene glycol esters, polyethylene glycol ethers, polypropylene glycol ethers, alkoxylated alkyl derivatives of polyols, oxyalkylenated triesters of glycerol, oxyalkylenated triesters of fatty acids, ethoxyethylenated urethane derivatives modified with alkyl chains, and mixtures thereof.

Claim 10 (Original): The composition of Claim 9, wherein the polyethylene glycol esters have the formula:

wherein $0 < m \le 300$ and $0 \le n 300$ and $m + n \ge 6$, R and R' represent, independently of each other, hydrogen or a saturated or unsaturated, linear or branched, hydroxylated or non-hydroxylated alkyl chain containing from 1 to 30 carbon atoms, or an aryl chain, with the proviso that R and R' are not simultaneously hydrogen.

Claim 11 (Original): The composition of Claim 9, wherein the polyethylene glycol ethers and/or polypropylene glycol ethers have the formula:

$$R-(EO)_m-(PO)_n-R'$$

in which $0 \le m \le 300$ and $0 \le n \le 300$ and $m + n \ge 6$, R and R' represent, independently of each other, hydrogen or a saturated or unsaturated, linear or branched, hydroxylated or non-hydroxylated alkyl chain containing from 1 to 30 carbon atoms, or an aryl chain, with the proviso that R and R' are not simultaneously hydrogen.

Claim 12 (Original): The composition of Claim 1, wherein the foaming surfactant is selected from the group consisting of nonionic surfactants, anionic surfactants, amphoteric surfactants and zwitterionic surfactants, and mixtures thereof.

Claim 13 (Original): The composition of Claim 1, wherein the amount of foaming surfactant ranges from 2% to 50% on an active material weight basis relative to the total weight of the composition.

Claim 14 (Original): The composition of Claim 1, wherein the foaming surfactant is selected from the group consisting of alkyl polyglucosides, maltose esters, polyglycerolated fatty alcohols, glucamine derivatives, carboxylates, amino acid derivatives, alkyl sulfates, alkyl ether sulfates, sulfonates, isethionates, taurates, sulfosuccinates, alkyl sulfoacetates, phosphates and alkyl phosphates, polypeptides, anionic alkyl polyglucoside derivatives, fatty acid soaps, betaines, N-alkylamidobetaines and derivatives thereof, glycine derivatives, sultaines, alkyl polyaminocarboxylates and alkylamphoacetates, and mixtures thereof.

Claim 15 (Original): The composition of Claim 12, wherein the foaming surfactant is selected from the group consisting of an anionic surfactant which is an acylsarcosinate, an oxyethylenated alkyl ether sulfate, an N-aryl N-methyltaurate, an N-acylglutamate, an acylisethionate, an sulfosuccinate, a phosphate or an alkyl phosphate; a polypeptide or a soap; an amphoteric or zwitterionic surfactant which is a betaine or an alkylamphoacetate; a nonionic surfactant which is an alkyl polyglucoside, O-octanoyl-6'-D-maltose, O-dodecanoyl-6'-D-maltose, polyglycerolated dodecanediol (3.5 mole of glycerol) and 2-ethylhexyloxycarbonyl-N-methylglucamine; and mixtures of these surfactants.

Response to Final Rejection dated October 22, 2003

Claim 16 (Original): The composition of Claim 1, which further comprises at least one solvent selected from the group consisting of alcohols comprising from 1 to 6 carbon atoms and polyols, and mixtures thereof.

Claim 17 (Original): A method of treating the skin, the eyes, the scalp and/or the hair, comprising:

applying the composition of Claim 1 to the skin, the eyes, the scalp and/or the hair thereby cleansing and/or removing make-up from the skin, the eyes, the scalp and/or the hair.

Claim 18 (Original): A method of treating greasy skin, comprising:

applying the composition of Claim 1 to the skin, thereby removing grease from the skin.

Claim 19 (Original): A method of disinfecting the skin and/or the scalp, comprising: applying the composition of Claim 1 to the skin and/or the scalp, thereby disinfecting the skin and/or the scalp.

Claim 20 (Original): A method of cleansing the skin, the eyes, the scalp and/or the hair, comprising:

applying the composition of Claim 1 to the skin, the eyes, the scalp and/or the hair in the presence of water thereby forming a lather; and

removing the lather containing soiling residues by rinsing the lather from the skin, the eyes, the scalp and/or the hair with water.

Claim 21 (Original): A cosmetic mask, comprising:

an applied composition of Claim 1 as a mask on the skin of the face.

Claim 22 (Previously Presented): A cleansing composition, comprising:

(1) at least one foaming surfactant, (2) at least one hydrophobic silica and (3) at least one oxyalkylenated compound in a physiologically acceptable aqueous medium comprising at least 35% by weight of water relative to the total weight of the composition, wherein the oxyalkylenated compound is a thickening agent selected from the group consisting of polyethylene glycols, polyethylene glycol esters, polypropylene glycol esters, polypropylene glycol esters, polyethylene glycol ethers, polypropylene glycol ethers, alkoxylated alkyl derivatives of polyols, oxyalkylenated triesters of glycerol, oxyalkylenated triesters of fatty acids, ethoxyethylenated urethane derivatives modified with alkyl chains, and mixtures thereof.

Claim 23 (Previously Presented): The composition of Claim 1, wherein the amount of hydrophobic silica ranges from 2% to 10% on an active material weight basis relative to the total weight of the composition.

Claim 24 (Previously Presented): The composition of Claim 23, wherein the amount of hydrophobic silica ranges from 2% to 6% on an active material weight basis relative to the total weight of the composition.

Claim 25 (Previously Presented): The composition of Claim 4, wherein the amount of hydrophobic silica ranges from 2% to 10% on an active material weight basis relative to the total weight of the composition.

Claim 26 (Previously Presented): The composition of Claim 25, wherein the amount of hydrophobic silica ranges from 2% to 6% on an active material weight basis relative to the total weight of the composition.

Application No. 09/903,769 Response to Final Rejection dated October 22, 2003

Claim 27 (Previously Presented): The composition of Claim 22, wherein the polyethylene glycol esters have the formula:

wherein $0 < m \le 300$ and $0 \le n = 300$ and $m + n \ge 6$, R and R' represent, independently of each other, hydrogen or a saturated or unsaturated, linear or branched, hydroxylated or non-hydroxylated alkyl chain containing from 1 to 30 carbon atoms, or an aryl chain, with the proviso that R and R' are not simultaneously hydrogen.

Claim 28 (Previously Presented): The composition of Claim 22, wherein the polyethylene glycol ethers and/or polypropylene glycol ethers have the formula:

$$R-(EO)_m-(PO)_n-R'$$

in which $0 \le m \le 300$ and $0 \le n \le 300$ and $m + n \ge 6$, R and R' represent, independently of each other, hydrogen or a saturated or unsaturated, linear or branched, hydroxylated or non-hydroxylated alkyl chain containing from 1 to 30 carbon atoms, or an aryl chain, with the proviso that R and R' are not simultaneously hydrogen.

Claim 29 (Previously Presented): The composition of Claim 1, which has a viscosity ranging from 9 to 15 Pa·s.

International Cosmetic Ingredient Dictionary and Handbook

Seventh Edition 1997

Editors

John A. Wenninger G. N. McEwen, Jr., Ph.D., J.D.

Volume 2

Published by
The Cosmetic, Toiletry, and Fragrance Association
1101 17th Street, N.W., Suite 300
Washington, DC 20036-4702

PEG-40 HYDROGENATED CASTOR OIL

CAS Number: 61788-85-0 (generic)

Definition: PEG-40 Hydrogenated Castor Oil is

a polyethylene glycol derivative of

Hydrogenated Castor Oil (q.v.) with an average

of 40 moles of ethylene oxide.

Information Sources: 21CFR177.2800, CTFA

S, NF XVIII, TSCA, USAN

Chemical Classes: Alkoxylated Alcohols;

Glyceryl Esters and Derivatives

Functions: Surfactant - Emulsifying Agent;

Surfactant - Solubilizing Agent

Reported Product Categories: Tonics,

Dressings, and Other Hair Grooming Aids;

Aftershave Lotions; Body and Hand

Preparations (Excluding Shaving Preparations);

Cleansing Products (Cold Creams, Cleansing Lotions, Liquids and Pads); Skin Care

Preparations, Misc.; Bath Preparations, Misc.;

Moisturizing Preparations; Colognes and Toilet

Waters: Skin Fresheners; Hair Preparations

(Non-coloring), Misc.; Personal Cleanliness

Products, Misc.; Hair Wave Sets; Bath Soaps

and Detergents; Paste Masks (Mud Packs);

Shaving Preparations, Misc.; Fragrance

Preparations, Misc.; Indoor Tanning

Preparations; Eye Shadows; Mascara; Hair

Sprays (Aerosol Fixatives); Face Powders; Face and Neck Preparations (Excluding Shaving

Preparations); Foundations

Technical Names:

Polyethylene Glycol 2000 Hydrogenated

Polyoxyethylene (40) Hydrogenated Castor

Trade Names:

Akyporox CO 400 (Chem-Y)

Calgene Nonionic GRH-40 (Calgene)

Cremophor CO 40 (BASF)

Cremophor RH 40 (BASF)

Cremophor RH 410 (BASF)

Croduret 40 (Croda Oleochemicals)

Emulsifier 17 P (Grau)

Jeechem CAH-40 (Jeen)

Lipocol HCO-40 (Lipo)

Lipovol HCO-40 (Lipo) Nikkol HCO-40 (Nikko)

Protachem CAH-40 (Protameen)

Simulsol 1293 (Sol) (SEPPIC)

Sipotrig HCO-40 (Specialty Industrial)

Sympatens-TRH/400 (Kolb)

Tagat R40 (Goldschmidt)

Unipeg-CO-40H (Universal Preserv-A-Chem)

Witconol 2739 (Witco)

Trade Name Mixtures:

Biobranil Watersoluble 2/012600 (Dragoco)

Bio-Sulphur Liquid (Novarom)

Chamazulene - HCE (Seporga)

Chamomile CL 2/033026 (Dragoco)

Covafresh (Wackherr) Covafresh II (Wackherr)

COVASORB EW (Wackherr)

Cremogen Camomile MEW Special New (739027) (Haarmann & Reimer)

Cremogen Myrrh (PN 775 464) (Haarmann & Reimer)

Cremogen Rosemary Forte (758302)

(Haarmann & Reimer)

Cremophor RH 455 (BASF)

C8 Soie Hydro (Phytocos) Emulsifier 2/014160 (Dragoco)

Ferulan Proactiv (GfN)

Hydrocos (Cosmetochem)

Melaclear (Sederma)

Microfolia (Wackherr)

Rosemary CL 2/033253 (Dragoco)

Solubilisant Gamma 2428 (Gattefosse s.a.)

Solubilisant LRI (Wackherr)

Standamul Conc. 1002 (Henkel)

Standamul Conc. 1002 (Henkel/COSPHA)

Unimul-1002 Conc. (Universal Preserv-A-

Chem)

PEG-45 HYDROGENATED CASTOR OIL

CAS Number: 61788-85-0 (generic)

Definition: PEG-45 Hydrogenated Castor Oil is

a polyethylene glycol derivative of

Hydrogenated Castor Oil (q.v.) with an average

of 45 moles of ethylene oxide.

Information Sources: 21CFR177.2800 Chemical Classes: Alkoxylated Alcohols;

Glyceryl Esters and Derivatives

Functions: Surfactant - Cleansing Agent;

Surfactant - Solubilizing Agent

Technical Names:

Polyethylene Glycol (45) Hydrogenated

Castor Oil

Polyoxyethylene (45) Hydrogenated Castor

Oil

PEG-50 HYDROGENATED CASTOR OIL

CAS Number: 61788-85-0 (generic)

Definition: PEG-50 Hydrogenated Castor Oil is

a polyethylene glycol derivative of

Hydrogenated Castor Oil (q.v.) with an average of 50 moles of ethylene oxide.

Information Sources: 21CFR177.2800, TSCA

Chemical Classes: Alkoxylated Alcohols; Glyceryl Esters and Derivatives

Functions: Surfactant - Cleansing Agent;

Surfactant - Solubilizing Agent

Technical Names:

Polyethylene Glycol (50) Hydrogenated Castor Oil

Polyoxyethylene (50) Hydrogenated Castor Oil

Trade Names:

Croduret 50 (Croda Oleochemicals) Nikkol HCO-50 (Nikko)

PEG-54 HYDROGENATED CASTOR OIL

CAS Number: 61788-85-0 (generic)

Definition: PEG-54 Hydrogenated Castor Oil is

a polyethylene glycol derivative of

Hydrogenated Castor Oil (q.v.) with an average

of 54 moles of ethylene oxide.

Information Sources: 21CFR177.2800

Chemical Classes: Alkoxylated Alcohols;

Glyceryl Esters and Derivatives

Functions: Surfactant - Cleansing Agent;

Surfactant - Solubilizing Agent

Technical Names:

Polyethylene Glycol (54) Hydrogenated Castor Oil

Polyoxyethylene (54) Hydrogenated Castor

Trade Name:

Arlatone 289 (ICI Surfactants)

PEG-55 HYDROGENATED CASTOR OIL

CAS Number: 61788-85-0 (generic)

Definition: PEG-55 Hydrogenated Castor Oil is

a polyethylene glycol derivative of Hydrogenated Castor Oil (q.v.) with an average

of 55 moles of ethylene oxide.

Information Sources: 21CFR177.2800

Chemical Classes: Alkoxylated Alcohols;

Glyceryl Esters and Derivatives Functions: Surfactant - Cleansing Agent;

Surfactant - Solubilizing Agent

Technical Names:

Polyethylene Glycol (55) Hydrogenated

Castor Oil

Polyoxyethylene (55) Hydrogenated Castor Oil

PEG-60 HYDROGENATED CASTOR OIL

CAS Number: 61788-85-0 (generic)

Definition: PEG-60 Hydrogenated Castor Oil is

a polyethylene glycol derivative of Hydrogenated Castor Oil (q.v.) with an average of 60 moles of ethylene oxide.

frequently classified, on the basis of their ionic characteristics, as amphoteric, anionic, cationic, or nonionic. In cosmetics, surfactants perform a variety of important functions and are subdivided here into six major groups:

Surfactants - Cleansing Agents Surfactants - Emulsifying Agents

Surfactants - Foam Boosters

Surfactants - Hydrotropes

Surfactants - Solubilizing Agents

Surfactants - Suspending Agents

In addition, some surfactants function as Hair Conditioning Agents, and some are included in the listing of Skin-Conditioning Agents - Miscellaneous. In order to avoid unnecessary repetition, no comprehensive listing of surfactants is provided. Instead, surfactants are listed on the basis of their common usage in the above functional classifications. It should be understood that individual surfactants may be used for other functions in addition to this classification.

Surfactants - Cleansing Agents

Surfactants - Cleansing Agents, are used for skin and hair-cleaning purposes and as emulsifiers in cosmetics. In this function, surfactants wet body surfaces, emulsify or solubilize oils, and suspend soil. It is characteristic (and expected by some consumers) that such agents should contribute foaming and lathering properties to cleansing products and bubble baths. The listing includes not only soaps but also fatty acids which yield soaps upon reaction with an alkali.

Surfactants - Cleansing Agents are routinely used as emulsifiers.

Almondamidopropylamine Oxide Almondamidopropyl Betaine Aminopropyl Laurylglutamine Ammonium C12-15 Alkyl Sulfate Ammonium Capryleth Sulfate

Ammonium Cocomonoglyceride Sulfate

Ammonium Coco-Sulfate **Ammonium Cocoyl Isethionate Ammonium Cocoyl Sarcosinate** Ammonium C12-15 Pareth Sulfate Ammonium C9-10 Perfluoroalkylsulfonate

Ammonium Dimethicone Copolyol Sulfate

Ammonium Dodecylbenzenesulfonate

Ammonium Isostearate

Ammonium Laureth-6 Carboxylate Ammonium Laureth-8 Carboxylate

Ammonium Laureth Sulfate Ammonium Laureth-5 Sulfate Ammonium Laureth-7 Sulfate Ammonium Laureth-9 Sulfate

Ammonium Laureth-12 Sulfate Ammonium Lauroyl Sarcosinate

Ammonium Lauryl Sulfate

Ammonium Lauryl Sulfosuccinate Ammonium Myreth Sulfate

Ammonium Myristyl Sulfate Ammonium Nonoxynol-4 Sulfate Ammonium Nonoxynol-30 Sulfate

Ammonium Oleate Ammonium Palm Kernel Sulfate Ammonium Stearate **Ammonium Tallate**

AMP-isostearoyi Hydrolyzed Collagen AMP-Isostearoyl Hydrolyzed Soy Protein AMP-Isostearoyl Hydrolyzed Wheat Protein AMPD-Isostearoyl Hydrolyzed Collagen

AMPD-Rosin Hydrolyzed Collagen Apricotamidopropyl Betaine

Arachidic Acid

Avocadamidopropyl Betaine Babassuamidopropylamine Oxide Babassuamidopropyl Betaine

Beeswax Acid Behenamidopropyl Betaine

Behenamine Oxide Beheneth-25

Beheneth-30 **Behenic Acid** Behenyl Betaine

Butoxynol-5 Carboxylic Acid **Butoxynol-19 Carboxylic Acid**

Butyl Glucoside Butylglucoside Caprate

Butyloctanoic Acid C18-36 Acid

C9-16 Alkanes/Cycloalkanes C10-14 Alkyl Benzenesulfonic Acid

C9-15 Alkyl Phosphate Canolamidopropyl Betaine

Capric Acid

Caproic Acid

Caproyl Ethyl Glucoside Capryl/Capramidopropyl Betaine

Capryleth-4 Carboxylic Acid Capryleth-6 Carboxylic Acid Capryleth-9 Carboxylic Acid

Caprylic Acid

Capryloyl Collagen Amino Acids

Capryloyl Glycine

Capryloyl Hydrolyzed Collagen Capryloyl Hydrolyzed Keratin Capryloyl Keratin Amino Acids Capryloyl Silk Amino Acids Caprylyl/Capryl Glucoside

Caprylyl Pyrrolidone

Carnitine Ceteareth-20 Ceteareth-23

Ceteareth-24 Ceteareth-25

Ceteareth-27 Ceteareth-28 Ceteareth-29

Ceteareth-30 Ceteareth-33 Ceteareth-34

Ceteareth-40 Ceteareth-50 Ceteareth-55

Ceteareth-60

Ceteareth-80

Ceteareth-100

Ceteareth-25 Carboxylic Acid Ceteareth-2 Phosphate Ceteareth-4 Phosphate

Ceteareth-5 Phosphate Ceteareth-10 Phosphate

Ceteth-20 Ceteth-24 Ceteth-25

Ceteth-30

Ceteth-45 Ceteth-8 Phosphate

Ceteth-10 Phosphate

Cetoleth-22 Cetoleth-24 Cetoleth-25 Cetyl Betaine

Cocamidoethyl Betaine Cocamidopropyl Amine Oxide

Cocamidopropylamine Oxide Cocamidopropyl Betaine

Cocamidopropyl Hydroxysultaine

Cocamine Oxide Cocaminobutyric Acid Cocaminopropionic Acid Coceth-7 Carboxylic Acid Coceth-4 Glucoside

Cocoamphodipropionic Acid

Cocobetainamido Amphopropionate

Coco-Betaine Coco-Glucoside Coco-Hydroxysultaine Coco-Morpholine Oxide

Coconut Acid

Coco/Oleamidopropyl Betaine

Coco-Sultaine Cocoyl Glutamic Acid Cocoyl Hydrolyzed Collagen Cocoyl Hydrolyzed Keratin Cocoyl Hydrolyzed Soy Protein Cocoyl Sarcosine

Corn Acid Cottonseed Acid C11-15 Pareth-30 C11-15 Pareth-40 C12-13 Pareth-23 C20-40 Pareth-40 C22-24 Pareth-33 C30-50 Pareth-40

C9-11 Pareth-6 Carboxylic Acid C11-15 Pareth-7 Carboxylic Acid C12-13 Pareth-5 Carboxylic Acid C12-13 Pareth-8 Carboxylic Acid C12-13 Pareth-12 Carboxylic Acid C12-15 Pareth-7 Carboxylic Acid C12-15 Pareth-8 Carboxylic Acid C14-15 Pareth-8 Carboxylic Acid

C12-13 Pareth-10 Phosphate C12-15 Pareth-8 Phosphate

C12-15 Pareth-10 Phosphate C12-16 Pareth-6 Phosphate

DEA-C12-13 Alkvl Sulfate DEA-C12-15 Alkyl Sulfate

DEA-Ceteareth-2 Phosphate

DEA-Cetyl Sulfate

DEA-Cocoamphodipropionate DEA-C12-13 Pareth-3 Sulfate DEA-Cyclocarboxypropyloleate **DEA-Dodecylbenzenesulfonate**

DEA-Isostearate DEA-Laureth Sulfate DEA-Lauryl Sulfate **DEA-Linoleate**

DEA-Methyl Myristate Sulfonate

DEA-Myreth Sulfate DEA-Myristate **DEA-Myristyl Sulfate DEA-Oleth-5 Phosphate DEA-Oleth-20 Phosphate** Deceth-7 Carboxylic Acid Deceth-7 Glucoside Decylamine Oxide **Decyl Betaine Decyl Glucoside** Decyttetradeceth-30

Decyltetradecylamine Oxide

Diammonium Lauramido-MEA Sulfosuccinate

Diammonium Lauryl Sulfosuccinate

Diammonium Oleamido PEG-2 Sulfosuccinate

Di-C12-15 Pareth-2 Phosphate Di-C12-15 Pareth-4 Phosphate Di-C12-15 Pareth-6 Phosphate Di-C12-15 Pareth-8 Phosphate Di-C12-15 Pareth-10 Phosphate Diethylamine Laureth Sulfate

Dihydroxyethyl C8-10 Alkoxypropylamine Oxide Dihydroxyethyl C9-11 Alkoxypropylamine Oxide Dihydroxyethyl C12-15 Alkoxypropylamine Oxide

Dihydroxyethyl Cocamine Oxide Dihydroxyethyl Lauramine Oxide Dihydroxyethyl Stearamine Oxide Dihydroxyethyl Tallowamine Oxide Dimethicone Copolyol Phosphate Dimethicone Propyl PG-Betaine

Dimyristyl Phosphate

Dioctyl Sodium Sulfosuccinate

Dioleoylamidoethyl Hydroxyethylmonium

Methosulfate

DIPA-Hydrogenated Cocoate

DIPA-Lanolate

Disodium Caproamphodiacetate Disodium Caproamphodipropionate Disodium Capryloamphodiacetate Disodium Capryloamphodipropionate **Disodium Cetearyl Sulfosuccinate** Disodium Cetyl Phenyl Ether Disulfonate Disodium Cocamido MEA-Sulfosuccinate Disodium Cocamido MIPA-Sulfosuccinate Disodium Cocamido PEG-3 Sulfosuccinate

Cocoamphocarboxyethylhydroxypropylsulfonate

Disodium Cocoamphodiacetate Disodium Cocoamphodipropionate Disodium Coco-Glucoside Sulfosuccinate

Disodium Cocoyl Butyl Gluceth-10 Sulfosuccinate

Disodium Cocoyl Glutamate

Disodium C12-15 Pareth Sulfosuccinate Disodium Deceth-5 Sulfosuccinate Disodium Deceth-6 Sulfosuccinate Disodium Decyl Phenyl Ether Disulfonate

Disodium Dihydroxyethyl

Sulfosuccinylundecylenate

Disodium Dimethicone Copolyol Sulfosuccinate Disodium Hydrogenated Cottonseed Glyceride Sulfosuccinate

Disodium Hydrogenated Tallow Glutamate Disodium Hydroxydecyl Sorbitol Citrate Disodium Isodecyl Sulfosuccinate

Disodium Isostearamido MEA-Sulfosuccinate

Disodium Isostearamido MIPA-Sulfosuccinate

Disodium Isostearoamphodiacetate Disodium Isostearoamphodipropionate Disodium Isostearyl Sulfosuccinate Disodium Laneth-5 Sulfosuccinate

Disodium Lauramido MEA-Sulfosuccinate Disodium Lauramido PEG-2 Sulfosuccinate Disodium Lauramido PEG-5 Sulfosuccinate

Disodium Laureth-5 Carboxyamphodiacetate Disodium Laureth-7 Citrate

Disodium Laureth Sulfosuccinate Disodium Laureth-6 Sulfosuccinate Disodium Laureth-9 Sulfosuccinate Disodium Laureth-12 Sulfosuccinate Disodium Lauriminodipropionate Disodium Lauroamphodiacetate

Disodium Lauroamphodipropionate Disodium Lauryl Phenyl Ether Disulfonate

Disodium Lauryl Sulfosuccinate

Disodium Myristamido MEA-Sulfosuccinate Disodium Nonoxynol-10 Sulfosuccinate Disodium Oleamido MEA-Sulfosuccinate Disodium Oleamido MIPA-Sulfosuccinate Disodium Oleamido PEG-2 Sulfosuccinate

Disodium Oleoamphodipropionate Disodium Oleth-3 Sulfosuccinate Disodium Oleyl Phosphate Disodium Oleyl Sulfosuccinate

Disodium Palmitamido PEG-2 Sulfosuccinate Disodium Palmitoleamido PEG-2 Sulfosuccinate Disodium PEG-4 Cocamido MIPA-Sulfosuccinate

Disodium PEG-8 Palm Glycerides Sulfosuccinate

Disodium PPG-2-Isodeceth-7 Carboxyamphodiacetate

Disodium Ricinoleamido MEA-Sulfosuccinate Disodium Sitostereth-14 Sulfosuccinate Disodium Stearamido MEA-Sulfosuccinate

Disodium Steariminodipropionate Disodium Stearoamphodiacetate Disodium Stearoyl Glutamate

Disodium Stearyl Sulfosuccinamate Disodium Stearyl Sulfosuccinate

Disodium 2-Sulfolaurate

Disodium Tallamido MEA-Sulfosuccinate Disodium Tallowamido MEA-Sulfosuccinate

Disodium Tallowamphodiacetate

Disodium Tallowiminodipropionate Disodium Tallow Sulfosuccinamate Disodium Tridecylsulfosuccinate Disodium Undecylenamido MEA-Sulfosuccinate

Disodium Undecylenamido PEG-2 Sulfosuccinate

Disodium Wheat Germamido MEA-

Sulfosuccinate

Disodium Wheat Germamido PEG-2 Sulfosuccinate

Disodium Wheatgermamphodiacetate Di-TEA-Oleamido PEG-2 Sulfosuccinate

Di-TEA-Palmitoyl Aspartate Ditridecyl Sodium Sulfosuccinate Dodecylbenzene Sulfonic Acid Erucamidopropyl Hydroxysultaine Ethyl PEG-15 Cocamine Sulfate

Hexyldecanoic Acid

Hydrogenated Coconut Acid Hydrogenated Laneth-25 Hydrogenated Menhaden Acid Hydrogenated Palm Acid

Hydrogenated Palm Kernel Amine Oxide

Hydrogenated Tallow Acid Hydrogenated Tallowamine Oxide Hydrogenated Tallow Betaine Hydrogenated Talloweth-25

Hydrogenated Tallowoyl Glutamic Acid

Hydroxyceteth-60

Hydroxyethylbutylamine Laureth Sulfate

Hydroxyethyl Carboxymethyl Cocamidopropylamine

Hydroxyethyl Hydroxypropyl C12-15

Alkoxypropylamine Oxide Hydroxystearic Acid

Isoceteth-30 Isopropanolamine Lanolate

Isopropylamine Dodecylbenzenesulfonate Isostearamidopropylamine Oxide

Isostearamidopropyl Betaine

Isostearamidopropyl Morpholine Oxide

Isosteareth-22 Isosteareth-50 Isostearic Acid

Isostearoyi Hydrolyzed Collagen Jojoba Wax PEG-80 Esters

Jojoba Wax PEG-120 Esters Laneth-20

Laneth-25 Laneth-40 Laneth-50 Laneth-60 Laneth-75 Lanolin Acid

Lauramidopropylamine Oxide

Lauramidopropyl Betaine Lauramine Oxide

Lauraminopropionic Acid Laureth-16

Laureth-20 Laureth-23 Laureth-25

Laureth-30

Laureth-40

Laureth-3 Carboxylic Acid Laureth-4 Carboxylic Acid Laureth-5 Carboxylic Acid Laureth-6 Carboxylic Acid Laureth-10 Carboxylic Acid Laureth-11 Carboxylic Acid Laureth-12 Carboxylic Acid Laureth-13 Carboxylic Acid Laureth-14 Carboxylic Acid Laureth-17 Carboxylic Acid

Laureth-6 Citrate Laureth-7 Citrate Laureth-3 Phosphate Laureth-4 Phosphate Laureth-7 Phosphate Laureth-8 Phosphate Laureth-7 Tartrate Lauric Acid

Lauroamphodipropionic Acid Lauroyl Collagen Amino Acids Lauroyl Hydrolyzed Collagen Lauroyl Hydrolyzed Elastin Lauroyl Methyl Glucamide Lauroyl Sarcosine

Lauroyl Silk Amino Acids Lauryl Betaine Lauryl Glucoside Lauryl Hydroxysultaine Lauryl Pyrrolidone

Lauryl Sultaine Linoleic Acid Linolenic Acid Linseed Acid Lysine Cocoate Magnesium Coco-Sulfate

Magnesium Laureth-11 Carboxylate Magnesium Laureth Sulfate

Magnesium Laureth-5 Sulfate Magnesium Laureth-8 Sulfate Magnesium Laureth-16 Sulfate

Magnesium Lauryl Hydroxypropyl Sulfonate

Magnesium Lauryl Sulfate Magnesium Methyl Cocoyl Taurate Magnesium Myreth Sulfate Magnesium Oleth Sulfate Magnesium/TEA-Coco-Sulfate MEA-Laureth-6 Carboxylate MEA-Laureth Sulfate

MEA-Lauryi Sulfate MEA-PPG-6-Laureth-6-Carboxylate MEA-PPG-8-Steareth-7 Carboxylate

MEA-Undecylenate Meroxapol 108 Meroxapol 174 Meroxapol 178 Meroxapol 254 Meroxapol 255 Meroxapol 258 Meroxapol 314

Methyl Morpholine Oxide Milkamidopropyl Amine Oxide

Milkamidopropyl Betaine Minkamidopropylamine Oxide Minkamidopropyl Betaine MIPA C12-15 Pareth Sulfate MIPA-Dodecylbenzenesulfonate MIPA-Laureth Sulfate

MIPA-Lauryl Sulfate

Mixed Isopropanolamines Lanolate Mixed Isopropanolamines Lauryl Sulfate Mixed Isopropanolamines Myristate

Morpholine Oleate Morpholine Stearate Myreth-3 Carboxylic Acid Myreth-5 Carboxylic Acid Myristalkonium Chloride Myristamidopropylamine Oxide Myristamidopropyl Betaine

Myristamidopropyl Dimethylamine Phosphate

Myristamine Oxide Myristaminopropionic Acid Myristic Acid Myristoyl Glutamic-Acid Myristoyl Hydrolyzed Collagen Myristoyl Sarcosine Myristyl Betaine

Myristyl/Cetyl Amine Oxide

Nonoxynol-20 Nonoxynol-23 Nonoxynol-25 Nonoxynol-30 Nonoxynol-35 Nonoxynol-40 Nonoxynol-44 Nonoxynol-50 Nonoxynol-100 Nonoxynol-120

Nonoxynol-5 Carboxylic Acid Nonoxynol-8 Carboxylic Acid Nonoxynol-10 Carboxylic Acid Nonoxynol-6 Phosphate Nonoxynol-9 Phosphate

Nonoxynol-10 Phosphate Nonyl Nonoxynol-49 Nonyl Nonoxynol-100 Nonyl Nonoxynol-150

Nonyl Nonoxynol-7 Phosphate Nonyl Nonoxynol-9 Phosphate Nonyl Nonoxynol-10 Phosphate Nonvi Nonoxynol-15 Phosphate Nonyl Nonoxynol-24 Phosphate Octeth-3 Carboxylic Acid

Octoxynol-16 Octoxynol-25 Octoxynol-30 Octoxynol-33 Octoxynoi-40 Octoxynol-70

Octoxynol-20 Carboxylic Acid

Octyldodeceth-20 Octyldodeceth-25 Octyldodeceth-30

Oleamidopropylamine Oxide

Oleamidopropyl Betaine	PEG-23 Glyceryl Laurate	PEG-75 Propylene Glycol Stearate
Oleamidopropyl Hydroxysultaine	PEG-30 Glyceryl Laurate	PEG-120 Propylene Glycol Stearate
Dleamine Oxide	PEG-25 Glyceryl Oleate	PEG-40 Ricinoleamide
Neic Acid	PEG-30 Glyceryl Oleate	PEG-75 Shea Butter Glycerides
Neoyl Hydrolyzed Collagen	PEG-25 Glyceryl Stearate	PEG-75 Shorea Butter Glycerides
Pleoyl Sarcosine	PEG-30 Glyceryl Stearate	PEG-20 Sorbitan Cocoate
leth-20	PEG-120 Glyceryl Stearate	PEG-20 Sorbitan Isostearate
eleth-23	PEG-200 Glyceryl Stearate	PEG-40 Sorbitan Lanolate
leth-25	PEG-28 Glyceryl Tallowate	PEG-75 Sorbitan Lanolate
eth-30	PEG-80 Glyceryl Tallowate	PEG-10 Sorbitan Laurate
eleth-40	PEG-200 Glyceryl Tallowate	PEG-40 Sorbitan Laurate
eleth-44	PEG-45 Hydrogenated Castor Oil	PEG-44 Sorbitan Laurate
eth-50	PEG-50 Hydrogenated Castor Oil	PEG-75 Sorbitan Laurate
eleth-3 Carboxylic Acid	PEG-54 Hydrogenated Castor Oil	PEG-80 Sorbitan Laurate
eth-6 Carboxylic Acid	PEG-55 Hydrogenated Castor Oil	PEG-80 Sorbitan Palmitate
leth-10 Carboxylic Acid	PEG-60 Hydrogenated Castor Oil	PEG-40 Sorbitan Stearate
•	PEG-80 Hydrogenated Castor Oil	PEG-60 Sorbitan Stearate
leyl Betaine	, <u> </u>	PEG-160 Sorbitan Triisostearate
livamidopropylamine Oxide	PEG-100 Hydrogenated Caster Oil	
livamidopropyl Betaine	PEG-200 Hydrogenated Castor Oil	PEG-40 Soy Sterol
live Acid	PEG-30 Hydrogenated Lanolin	PEG-2 Stearamide Carboxylic Acid
alm Acid	PEG-70 Hydrogenated Lanolin	PEG-9 Stearamide Carboxylic Acid
almamidopropyl Betaine	PEG-4 Isostearate	PEG-20 Stearate
almitamidopropylamine Oxide	PEG-6 Isostearate	PEG-23 Stearate
almitamidopropyl Betaine	PEG-8 Isostearate	PEG-25 Stearate
almitamine Oxide	PEG-10 Isostearate	PEG-30 Stearate
almitic Acid	PEG-12 Isostearate	PEG-32 Stearate
almitoyl Collagen Amino Acids	PEG-26 Jojoba Acid	PEG-35 Stearate
almitoyl Glycine	PEG-40 Jojoba Acid	PEG-36 Stearate
almitoyl Hydrolyzed Collagen	PEG-15 Jojoba Alcohol	PEG-40 Stearate
almitoyl Hydrolyzed Milk Protein	PEG-26 Jojoba Alcohol	PEG-45 Stearate
almitoyl Hydrolyzed Wheat Protein	PEG-40 Jojoba Alcohol	PEG-50 Stearate
almitoyl Keratin Amino Acids	PEG-35 Lanolin	PEG-75 Stearate
almitoyl Oligopeptide	PEG-40 Lanolin	PEG-90 Stearate
almitoyl Silk Amino Acids	PEG-50 Lanolin	PEG-100 Stearate
alm Kernel Acid	PEG-55 Lanolin	PEG-120 Stearate
alm Kernelamidopropyl Betaine	PEG-60 Lanolin	PEG-150 Stearate
eanut Acid	PEG-75 Lanolin	PEG-45 Stearate Phosphate
EG-10 Castor Oil	PEG-85 Lanolin	PEG-20 Tallate
EG-40 Castor Oil	PEG-100 Lanolin	PEG-50 Tallow Amide
EG-44 Castor Oil	PEG-150 Lanolin	PEG-20 Tallowate
EG-50 Castor Oil	PEG-75 Lanolin Oil	PEG-66 Trihydroxystearin
EG-54 Castor Oil	PEG-3 Lauramine Oxide	PEG-200 Trihydroxystearin
EG-55 Castor Oil	PEG-20 Laurate	Pelargonic Acid
EG-60 Castor Oil	PEG-32 Laurate	Pentadoxynol-200
EG-100 Castor Oil	PEG-75 Laurate	Poloxamer 105
EG-200 Castor Oil	PEG-150 Laurate	Poloxamer 108
EG-200 Castor Oil EG-11 Cocamide	PEG-70 Mango Glycerides	Poloxamer 182
EG-77 Cocamide EG-75 Dilaurate	PEG-70 Mango Glycendes PEG-20 Mannitan Laurate	Poloxamer 183
EG-150 Dilaurate	PEG-120 Methyl Glucose Dioleate	Poloxamer 184
EG-75 Dioleate	PEG-80 Methyl Glucose Laurate	Poloxamer 188
EG-150 Dioleate	PEG-4 Montanate	Poloxamer 217
EG-75 Distearate	PEG-30 Oleamine	Poloxamer 234
EG-120 Distearate	PEG-20 Oleate	Poloxamer 235
EG-150 Distearate	PEG-23 Oleate	Poloxamer 237
EG-175 Distearate	PEG-32 Oleate	Poloxamer 238
EG-250 Distearate	PEG-36 Oleate	Poloxamer 288
EG-30 Glyceryl Cocoate	PEG-75 Oleate	Poloxamer 334
EG-40 Glyceryl Cocoate	PEG-150 Oleate	Poloxamer 335
EG-78 Glyceryl Cocoate	PEG-20 Palmitate	Poloxamer 338
EC 80 Chrond Coonto	PEG/PPG-300/55 Copolymer	Poloxamine 908
EG-60 Glyceryi Cocoale	1 2011 1 0 000100 00000.	
PEG-80 Glyceryl Cocoate PEG-30 Glyceryl Isostearate	PEG-55 Propylene Glycol Oleate	Poloxamine 1508

Potassium Babassuate

Potassium C9-15 Alkyl Phosphate

Potassium Castorate

Potassium Cocoate

Potassium Cocoyl Glutamate

Potassium Cocoyl Glycinate

Potassium Cocoyl Hydrolyzed Casein Potassium Cocoyl Hydrolyzed Collagen

Potassium Cocoyl Hydrolyzed Corn Protein

Potassium Cocoyl Hydrolyzed Keratin

Potassium Cocoyl Hydrolyzed Potato Protein

Potassium Cocoyl Hydrolyzed Rice Bran Protein

Potassium Cocoyl Hydrolyzed Rice Protein

Potassium Cocoyl Hydrolyzed Silk Potassium Cocoyl Hydrolyzed Soy Protein

Potassium Cocoyl Hydrolyzed Wheat Protein

Potassium Cornate

Potassium Cyclocarboxypropyloleate

Potassium Dihydroxyethyl Cocamine Oxide

Phosphate

Potassium Dimethicone Copolyol Phosphate

Potassium Dodecylbenzenesulfonate

Potassium Laurate

Potassium Lauroyl Collagen Amino Acids

Potassium Lauroyl Glutamate

Potassium Lauroyl Hydrolyzed Collagen Potassium Lauroyl Hydrolyzed Soy Protein

Potassium Lauroyl Wheat Amino Acids

Potassium Lauryl Sulfate

Potassium Linoleate

Potassium Methyl Cocoyl Taurate

Potassium Myristate

Potassium Myristoyl Glutamate

Potassium Myristoyi Hydrolyzed Collagen

Potassium Octoxynol-12 Phosphate

Potassium Oleate

Potassium Oleoyl Hydrolyzed Collagen

Potassium Olivate

Potassium Palmate Potassium Palmitate

Potassium Palmitoyl Hydrolyzed Wheat Protein

Potassium Palm Kernelate

Potassium Peanutate

Potassium Rapeseedate

Potassium Ricinoleate

Potassium Soyate

Potassium Stearate

Potassium Stearoyl Hydrolyzed Collagen

Potassium Tallate

Potassium Tallowate Potassium Undecylenate

Potassium Undecylenoyl Hydrolyzed Collagen

PPG-30-Buteth-30

PPG-36-Buteth-36

PPG-38-Buteth-37

PPG-10 Cetyl Ether Phosphate PPG-3-Deceth-2 Carboxylic Acid

PPG-20-Glycereth-30

Propyttrimonium Hydrolyzed Collagen

Quaternium-24

Quaternium-52

Rapeseed Acid

Rice Bran Acid

Ricinoleamidopropyl Betaine

Ricinoleic Acid Ricinoleth-40

Saponins

Sesamidopropylamine Oxide

Sesamidopropyl Betaine

Sodium Babassuate

Sodium Bisglycol Ricinosulfosuccinate Sodium Borageamidopropyl PG-Dimonium

Chloride Phosphate

Sodium Butoxynol-12 Sulfate

Sodium C13-17 Alkane Sulfonate

Sodium C14-18 Alkane Sulfonate

Sodium C12-15 Alkoxypropyl Iminodipropionate

Sodium C9-22 Alkyl Sec Sulfonate

Sodium C14-17 Alkyl Sec Sulfonate

Sodium C12-13 Alkyl Sulfate

Sodium C12-15 Alkyl Sulfate

Sodium C12-18 Alkyl Sulfate

Sodium C16-20 Alkyl Sulfate

Sodium Caproamphoacetate

Sodium Caproamphohydroxypropylsulfonate

Sodium Caproamphopropionate

Sodium Caprylate

Sodium Capryleth-2 Carboxylate

Sodium Capryleth-9 Carboxylate

Sodium Capryloamphoacetate

Sodium Capryloamphohydroxypropylsulfonate

Sodium Capryloamphopropionate

Sodium Caprylyl Sulfonate

Sodium Castorate

Sodium Cetearyl Sulfate

Sodium Ceteth-13 Carboxylate

Sodium Cetyl Sulfate

Sodium Cocaminopropionate

Sodium Coceth Sulfate Sodium Cocoamphoacetate

Sodium Cocoamphohydroxypropylsulfonate

Sodium Cocoamphopropionate

Sodium Cocoate

Sodium Coco-Glucoside Tartrate

Sodium Cocoglyceryl Ether Sulfonate

Sodium Coco/Hydrogenated Tallow Sulfate

Sodium Cocomonoglyceride Sulfate

Sodium Cocomonoglyceride Sulfonate Sodium Coco PG-Dimonium Chloride Phosphate

Sodium Coco-Sulfate

Sodium Cocoyl Amino Acids Sodium Cocoyl Collagen Amino Acids

Sodium Cocoyl Glutamate

Sodium Cocoyl Hydrolyzed Collagen

Sodium Cocoyl Hydrolyzed Keratin

Sodium Cocoyl Hydrolyzed Rice Protein Sodium Cocoyl Hydrolyzed Soy Protein

Sodium Cocoyl Hydrolyzed Wheat Protein

Sodium Cocoyl Isethionate

Sodium Cocoyl Sarcosinate

Sodium Cocoyl Taurate

Sodium C12-14 Olefin Sulfonate Sodium C14-16 Olefin Sulfonate

Sodium C14-18 Olefin Sulfonate

Sodium C16-18 Olefin Sulfonate Sodium Cornamphopropionate

Sodium C13-15 Pareth-8 Butyl Phosphate

Sodium C9-11 Pareth-6 Carboxylate

Sodium C11-15 Pareth-7 Carboxylate

Sodium C12-13 Pareth-5 Carboxylate

Sodium C12-13 Pareth-8 Carboxylate

Sodium C12-13 Pareth-12 Carboxylate

Sodium C12-15 Pareth-6 Carboxylate

Sodium C12-15 Pareth-7 Carboxylate

Sodium C12-15 Pareth-8 Carboxylate

Sodium C14-15 Pareth-8 Carboxylate

Sodium C14-15 Pareth-PG Sulfonate

Sodium C13-15 Pareth-8 Phosphate

Sodium C10-15 Pareth Sulfate

Sodium C12-13 Pareth Sulfate Sodium C12-15 Pareth Sulfate

Sodium C12-15 Pareth-3 Sulfonate

Sodium C12-15 Pareth-7 Sulfonate

Sodium C12-15 Pareth-15 Sulfonate Sodium Deceth-2 Carboxylate

Sodium Deceth Sulfate

Sodium Decylbenzenesulfonate

Sodium Dihydroxycetyl Phosphate Sodium Dilaureth-7 Citrate

Sodium Dioleth-8 Phosphate

Sodium Dodecylbenzenesulfonate

Sodium Ethyl 2-Sulfolaurate

Sodium Glyceryl Oleate Phosphate Sodium Hexeth-4 Carboxylate

Sodium Hydrogenated Tallowoyl Glutamate

Sodium Isostearate Sodium Isosteareth-6 Carboxylate

Sodium Isosteareth-11 Carboxylate

Sodium Isostearoamphoacetate

Sodium Isostearoamphopropionate Sodium Laneth Sulfate

Sodium Lauramido Diacetate

Sodium Lauraminopropionate

Sodium Laurate

Sodium Laureth-3 Carboxylate

Sodium Laureth-4 Carboxylate

Sodium Laureth-5 Carboxylate

Sodium Laureth-6 Carboxylate

Sodium Laureth-11 Carboxylate Sodium Laureth-13 Carboxylate

Sodium Laureth-14 Carboxylate

Sodium Laureth-17 Carboxylate

Sodium Laureth Sulfate

Sodium Laureth-5 Sulfate

Sodium Laureth-7 Sulfate

Sodium Laureth-8 Sulfate

Sodium Laureth-12 Sulfate

Sodium Laureth-7 Tartrate Sodium Lauriminodipropionate

Sodium Lauroamphoacetate Sodium Lauroamphohydroxypropylsulfonate

Sodium Lauroampho PG-Acetate Phosphate

Sodium Lauroamphopropionate

Sodium Lauroyl Aspartate

Sodium Lauroyl Collagen Amino Acids Sodium Lauroyl Hydrolyzed Collagen

Sodium Lauroyl Hydrolyzed Silk

Sodium Lauroyl Isethionate

Sodium Lauroyl Methylaminopropionate

Sodium Lauroyl Oat Amino Acids

Sodium Lauroyl Sarcosinate

Sodium Lauroyl Silk Amino Acids

Sodium Lauroyl Taurate

Sodium Lauroyl Wheat Amino Acids

Sodium Lauryl Phosphate Sodium Lauryl Sulfate Sodium Lauryl Sulfoacetate

Sodium Linoleate

Sodium/MEA Laureth-2 Sulfosuccinate

Sodium Methyl Cocoyl Taurate Sodium Methyl Lauroyl Taurate Sodium Methyl Myristoyl Taurate Sodium Methyl Oleoyl Taurate Sodium Methyl Palmitoyl Taurate Sodium Methyl Stearoyl Taurate Sodium Methyl 2-Sulfolaurate

Sodium Myreth Sulfate

Sodium Myristate

Sodium Myristoamphoacetate Sodium Myristoyl Glutamate

Sodium Myristoyl Hydrolyzed Collagen

Sodium Myristoyl Isethionate Sodium Myristoyl Sarcosinate Sodium Myristyl Sulfate Sodium Nonoxynol-6 Phosphate

Sodium Nonoxynol-9 Phosphate Sodium Nonoxynol-1 Sulfate

Sodium Nonoxynol-3 Sulfate

Sodium Nonoxynol-4 Sulfate Sodium Nonoxynol-6 Sulfate

Sodium Nonoxynol-8 Sulfate Sodium Nonoxynol-10 Sulfate

Sodium Nonoxynol-25 Sulfate

Sodium Octoxynol-2 Ethane Sulfonate

Sodium Octoxynol-2 Sulfate Sodium Octoxynol-6 Sulfate Sodium Octoxynol-9 Sulfate

Sodium Oleate

Sodium Oleoamphoacetate

Sodium Oleoamphohydroxypropylsulfonate

Sodium Oleoamphopropionate Sodium Oleoyl Hydrolyzed Collagen

Sodium Oleoyl Isethionate Sodium Oleth Sulfate Sodium Oleyl Sulfate Sodium Olivate Sodium Palmate Sodium Palmitate

Sodium Palmitoyl Hydrolyzed Collagen Sodium Palmitoyl Hydrolyzed Wheat Protein

Sodium Palm Kernelate

Sodium Peanutate

Sodium PEG-6 Cocamide Carboxylate Sodium PEG-8 Cocamide Carboxylate Sodium PEG-3 Lauramide Carboxylate Sodium PEG-4 Lauramide Carboxylate

Sodium Rapeseedate Sodium Ricinoleate

Sodium Ricinoleoamphoacetate

Sodium Soyate

Sodium Soy Hydrolyzed Collagen

Sodium Stearate

Sodium Stearoamphoacetate

Sodium Stearoamphohydroxypropylsulfonate

Sodium Stearoamphopropionate Sodium Stearoyl Casein Sodium Stearoyl Glutamate Sodium Stearoyl Hyaluronate

Sodium Stearoyl Hydrolyzed Collagen Sodium Stearoyl Hydrolyzed Corn Protein Sodium Stearoyl Hydrolyzed Silk

Sodium Stearoyl Hydrolyzed Soy Protein Sodium Stearoyl Hydrolyzed Wheat Protein

Sodium Stearoyl Lactalbumin Sodium Stearoyl Oat Protein Sodium Stearoyl Pea Protein Sodium Stearoyl Soy Protein Sodium Stearyl Sulfate Sodium Tallamphopropionate Sodium Tallowamphoacetate

Sodium Tallowate Sodium Tallow Sulfate

Sodium/TEA-Lauroyl Collagen Amino Acids Sodium/TEA-Lauroyl Hydrolyzed Collagen Sodium/TEA-Lauroyl Hydrolyzed Keratin Sodium/TEA-Lauroyl Keratin Amino Acids Sodium/TEA-Undecylenoyl Collagen Amino Acids Sodium/TEA-Undecylenoyl Hydrolyzed Collagen Sodium/TEA-Undecylenoyl Hydrolyzed Corn

Protein

Sodium/TEA-Undecylenoyl Hydrolyzed Soy **Protein**

Sodium/TEA-Undecylenoyl Hydrolyzed Wheat **Protein**

Sodium Trideceth-3 Carboxylate Sodium Trideceth-6 Carboxylate Sodium Trideceth-7 Carboxylate Sodium Trideceth-8 Carboxylate Sodium Trideceth-12 Carboxylate Sodium Trideceth Sulfate

Sodium Tridecylbenzenesulfonate Sodium Tridecyl Sulfate

Sodium Undeceth-5 Carboxylate

Sodium Undecylenate

Sodium Undecylenoamphoacetate Sodium Undecylenoamphopropionate Sodium Wheat Germamphoacetate

Soy Acid Soyamidopropylamine Oxide Soyamidopropyl Betaine Stearamidopropylamine Oxide Stearamidopropyl Betaine

Stearamine Oxide Steareth-15 Steareth-16 Steareth-20 Steareth-21 Steareth-25 Steareth-27 Steareth-30

Steareth-40 Steareth-50

Steareth-80 Steareth-100

Steareth-2 Phosphate

Stearic Acid

Stearoyl Glutamic Acid Stearoyl Sarcosine Stearyl Betaine Sulfated Castor Oil Sulfated Glyceryl Oleate Sulfated Olive Oil Sulfated Peanut Oil Sunflower Seed Acid

Tall Oil Acid Tallow Acid

Tallowamidopropylamine Oxide Tallowamidopropyl Betaine Tallowamidopropyl Hydroxysultaine

Tallowamine Oxide

Tallow Betaine

Tallow Dihydroxyethyl Betaine Tallowoyl Ethyl Glucoside TEA-Abietoyl Hydrolyzed Collagen

TEA-C10-15 Alkyl Sulfate TEA-C12-13 Alkyl Sulfate TEA-C12-14 Alkyl Sulfate TEA-C12-15 Alkyl Sulfate

TEA-Canolate TEA-Cocoate TEA-Coco-Sulfate **TEA-Cocoyl Glutamate**

TEA-Cocoyl Hydrolyzed Collagen TEA-Cocoyl Hydrolyzed Soy Protein

TEA-Cocoyl Sarcosinate TEA-Dodecylbenzenesulfonate

TEA-Hydrogenated Tallowoyl Glutamate

TEA-Isostearate

TEA-Isostearoyl Hydrolyzed Collagen

TEA-Lauraminopropionate

TEA-Laurate

TEA-Laureth Sulfate

TEA-Lauroyl Collagen Amino Acids

TEA-Lauroyl Glutamate

TEA-Lauroyi Hydrolyzed Collagen TEA-Lauroyl Keratin Amino Acids **TEA-Lauroyi Methylaminopropionate TEA-Lauroyl Sarcosinate**

TEA-Lauryl Sulfate TEA-Myristaminopropionate

TEA-Myristate

TEA-Myristoyl Hydrolyzed Collagen

TEA-Oleate

TEA-Oleoyl Hydrolyzed Collagen

TEA-Oleoyl Sarcosinate **TEA-Oleyl Sulfate**

TEA-Palmitate

TEA-Palm Kernel Sarcosinate TEA-PEG-3 Cocamide Sulfate

TEA-Rosinate TEA-Stearate TEA-Tallate

TEA-Tridecylbenzenesulfonate

TEA-Undecylenate

TEA-Undecylenoyl Hydrolyzed Collagen

Tetramethyl Decynediol

Tetrasodium Dicarboxyethyl Stearyl

Sulfosuccinamate TIPA-Laureth Sulfate

TIPA-Lauryl Sulfate

TIPA-Stearate

Trideceth-20

Ceteareth-11

Ceteareth-12

Trideceth-50

Trideceth-3 Carboxylic Acid Trideceth-4 Carboxylic Acid

Trideceth-7 Carboxylic Acid

Trideceth-15 Carboxylic Acid Trideceth-19 Carboxylic Acid

Trideceth-10 Phosphate

Tridecylbenzenesulfonic Acid Trisodium Lauroampho PG-Acetate Chloride

Phosphate

Undecanoic Acid Undeceth-5 Carboxylic Acid Undecylenamidopropylamine Oxide

Undecylenamidopropyl Betaine

Undecylenic Acid

Undecylencyl Collagen Amino Acids Undecylenoyl Hydrolyzed Collagen Undecylenoyl Wheat Amino Acids

Undecyl Glucoside

C12-13 Pareth-2

C12-13 Pareth-3

C12-13 Pareth-4

Wheat Germ Acid

Wheat Germamidopropylamine Oxide Wheat Germamidopropyl Betaine

Surfactants - Emulsifying Agents

Surfactants - Emulsifying Agents, are employed in cosmetics to prepare emulsions. The efficacy of emulsifying agents depends on their ability to reduce surface tension, to form complex films on the surface of emulsified droplets, and to create a repulsive barrier on emulsified droplets to prevent their coalescence. Emulsion Stabilizers and Viscosity-Increasing Agents can be used as auxiliary emulsifiers to facilitate the process of emulsification or to retard physical changes in emulsions throughout their shelf-life. Ingredients listed as Surfactants - Cleansing Agents also function as emulsifying agents, but are not included in the following listing.

The following listing generally includes Surfactants - Cleansing Agents. Surfactant-type cleansers are widely used as emulsifiers; they are excluded here only to reduce unnecessary duplication.

Abjetic Acid Ceteareth-13 Cetyl Glyceryl Ether/Glycerin Copolymer Cetyl Phosphate Almond Oil PEG-6 Esters Ceteareth-14 Ammonium Coco-Sulfate Ceteareth-15 Choleth-10 Apricot Kernel Oil PEG-6 Esters Ceteareth-16 Choleth-15 Arachideth-20 Ceteareth-17 Choleth-20 Avocado Oil PEG-11 Esters Ceteareth-18 Choleth-24 **Beeswax** Ceteareth-22 Coceth-3 Beeswax Acid Ceteareth-60 Myristyl Glycol Coceth-5 Beheneth-5 Cetearyl Glucoside Coceth-6 Ceteth-1 Beheneth-10 Coceth-7 Beheneth-20 Ceteth-2 Coceth-8 **Butylglucoside Caprate** Ceteth-3 Coceth-10 **Butyloctanoic Acid** Ceteth-4 Cocoyl Ethyl Glucoside C18-36 Acid Glycol Ester Ceteth-5 Corn Glycerides C12-20 Acid PEG-8 Ester Ceteth-6 Corn Oil PEG-6 Esters Calcium Stearoyl Lactylate Ceteth-10 Corn Oil PEG-8 Esters C9-16 Alkanes/Cycloalkanes Ceteth-12 Cottonseed Glyceride C9-15 Alkyl Phosphate Ceteth-14 C9-11 Pareth-3 Canola Oil Glyceride Ceteth-15 C9-11 Pareth-6 Capryleth-4 C9-11 Pareth-8 Caprylic/Capric Triglyceride PEG-4 Esters Cetethyl Morpholinium Ethosulfate C11-15 Pareth-3 Ceteareth-2 Cetoleth-6 C11-15 Pareth-5 Ceteareth-3 Cetoleth-10 C11-15 Pareth-7 Ceteareth-4 Cetoleth-11 C11-15 Pareth-9 Ceteareth-5 Cetoleth-15 C11-15 Pareth-12 Ceteareth-6 Cetoleth-20 C11-15 Pareth-15 Ceteareth-7 Cetrimonium Bromide C11-15 Pareth-20 Ceteareth-8 Cetrimonium Chloride C11-21-Pareth-3 Ceteareth-9 Cetrimonium Methosulfate C11-21-Pareth-10 Ceteareth-10 Cetrimonium Tosylate

The inclusion of any compound in the *Dictionary and Handbook* does not indicate that use of that substance as a cosmetic ingredient complies with the laws and regulations governing such use in the United States or any other country.

Cetyl Alcohol

Cetyl Dimethicone Copolyol

C12-13 Pareth-5	Di-C12-15 Pareth-6 Phosphate	Glyceryl Isostearates
C12-13 Pareth-7 C12-13 Pareth-9	Di-C12-15 Pareth-8 Phosphate	Glyceryl Isotridecanoate/Stearate/Adipate
	Diethylaminoethyl Cocoate	Glyceryl Lanolate
C12-13 Pareth-10 C12-13 Pareth-15	Diethylaminoethyl PEG-5 Cocoate	Glyceryl Laurate
	Diethylaminoethyl PEG-5 Laurate	Glyceryl Laurate SE
C12-14 Pareth-3 C12-14 Pareth-7	Diethylaminoethyl Stearate	Glyceryl Laurate/Oleate
C12-14 Pareth-12	Dihydrocholeth-15	Glyceryl Linoleate
C12-15 Pareth-2	Dihydrocholeth-20	Glyceryl Linolenate
C12-15 Pareth-3	Dihydrocholeth-30	Glyceryl Montanate
C12-15 Pareth-4	Dihydrogenated Tallow Phthalic Acid Amide	Glyceryl Myristate
C12-15 Pareth-5	Dilaureth-7 Citrate	Glyceryl Oleate
C12-15 Pareth-7	Dilaureth-4 Phosphate	Glyceryl Oleate SE
C12-15 Pareth-9	Dilaureth-10 Phosphate Dimethicone Copolyol Acetate	Glyceryl Oleate/Elaidate
C12-15 Pareth-10	Dimethicone Copolyol Adetate Dimethicone Copolyol Adipate	Glyceryl Palmitate
C12-15 Pareth-11	Dimethicone Copolyol Butyl Ether	Glyceryl Palmitate/Stearate
C12-15 Pareth-12	Dimethicone Copolyol Ethyl Ether	Glyceryl Palmitoleate
C14-15 Pareth-4	Dimethicone Copolyol Methyl Ether	Glyceryl Pentadecanoate
C14-15 Pareth-7	Dimethicone Copolyol Phosphate	Glyceryl Ricinoleate
C14-15 Pareth-11	Dimethicone Copolyol Undecylenate	Glyceryl Ricinoleate SE
C14-15 Pareth-12	Dimethyl Octynediol	Glyceryl Rosinate
C14-15 Pareth-13	Dimyristyl Phosphate	Glyceryl/Sorbitol Oleate/Hydroxystearate
C20-40 Pareth-3	Dinonoxynol-9 Citrate	Glyceryl Stearate
C20-40 Pareth-10	Dinonoxynol-4 Phosphate	Glyceryl Stearate SE
C30-50 Pareth-3	Dioleoyl Edetolmonium Methosulfate	Glyceryl Stearate/Maleate
C30-50 Pareth-10	Dioleth-8 Phosphate	Glyceryl Tallowate
C40-60 Pareth-3	Disodium Cetearyl Sulfosuccinate	Glyceryl Undecylenate
C40-60 Pareth-10	Disodium Cetyl Phenyl Ether Disulfonate	Glycol Octanoate Glycol Stearate SE
C12-13 Pareth-10 Phosphate	Disodium Coco-Glucoside Citrate	Hexyldeceth-2
C12-15 Pareth-2 Phosphate	Disodium Coco-Glucoside Sulfosuccinate	Hexyldeceth-20
C12-15 Pareth-8 Phosphate	Disodium Decyl Phenyl Ether Disulfonate	Hydrogenated Castor Oil PEG-8 Esters
C12-15 Pareth-10 Phosphate	Disodium Laureth-7 Citrate	Hydrogenated Cottonseed Glyceride
C12-16 Pareth-6 Phosphate	Disodium Lauryl Phenyl Ether Disulfonate	Hydrogenated Laneth-5
C11-15 Sec-Pareth-12	Disodium Lauryl Phosphate	Hydrogenated Laneth-20
DATEM	Disodium Oleyl Phosphate	Hydrogenated Lard Glyceride
DEA-Ceteareth-2 Phosphate	Disodium PEG-8 Glyceryl Caprylate/Caprate	Hydrogenated Lecithin
DEA-Cetyl Phosphate	Disodium PEG-5 Laurylcitrate Sulfosuccinate	Hydrogenated Palm Acid
DEA-C8-18 Perfluoroalkylethyl Phosphate	Disodium PEG-8 Ricinosuccinate	Hydrogenated Palm Glyceride
DEA-Oleth-3 Phosphate	Disodium Sitostereth-14 Sulfosuccinate	Hydrogenated Palm/Palm Kernel Oil PEG-6
DEA-Oleth-5 Phosphate	Dodecylhexadecyltrimonium Chloride	Esters
DEA-Oleth-10 Phosphate	Dodoxynol-5	Hydrogenated Soy Glyceride
PEA-Oleth-20 Phosphate	Dodoxynol-6	Hydrogenated Talloweth-12
EA-Perfluoropolymethylisopropeth Phosphate	Dodoxynol-7	Hydrogenated Talloweth-60 Myristyl Glycol
Peceth-3	Dodoxynol-9	Hydrogenated Tallow Glyceride
Peceth-4	Dodoxynol-12	Hydrogenated Vegetable Glyceride
eceth-5	Dodoxynol-13	Hydrogenated Vegetable Glycerides Citrate
Peceth-6	Glycereth-17 Cocoate	Hydrogenated Vegetable Glycerides Phosphate
Deceth-8	Glycereth-6 Laurate	Hydrolyzed Beeswax
Peceth-10	Glycereth-20 Stearate	Hydroxycetyl Phosphate
Deceth-4 Phosphate	Glycereth-17 Tallowate	Hydroxyethyl Glyceryl Oleate/Stearate
eceth-6 Phosphate	Glyceryl Arachidate	Hydroxylated Lecithin
extrin Behenate	Glyceryl Behenate	Isoceteareth-8 Stearate
Dextrin Laurate	Glyceryl Caprate	Isoceteth-10
extrin Myristate	Glyceryl Caprylate	Isoceteth-20
extrin Palmitate	Glyceryl Caprylate/Caprate	Isoceteth-10 Stearate
extrin Stearate	Glyceryl Cocoate	Isodeceth-4
iammonium Dimethicone Copolyol	Glyceryl Erucate	Isodeceth-5
Sulfosuccinate	Glyceryl Hydrogenated Rosinate	Isodeceth-6
iceteareth-10 Phosphate	Glyceryl Hydroxystearate	Isolaureth-3
icetyl Phosphate	Glyceryl Isopalmitate	Isolaureth-6
i-C12-15 Pareth-2 Phosphate i-C12-15 Pareth-4 Phosphate	Glyceryl Isostearate	Isolaureth-10
	Glyceryl Isostearate/Myristate	Isosteareth-2

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Isosteareth-3	Myristoyl Methylalanine	Oleth-20
Isosteareth-10	Noneth-8	Oleth-2 Phosphate
Isosteareth-12	Nonoxynol-1	Oleth-3 Phosphate
Isosteareth-20	Nonoxynol-2	Oleth-4 Phosphate
Isosteareth-6 Carboxylic Acid	Nonoxynol-3	Oleth-5 Phosphate
Isosteareth-11 Carboxylic Acid	Nonoxynol-4	Oleth-10 Phosphate
Isosteareth-2 Phosphate	Nonoxynol-5	Oleth-20 Phosphate
Isosteareth-10 Stearate	Nonoxynol-6	Oleyl Ethyl Phosphate
Laneth-5	Nonoxynol-7	Oleyl Phosphate
Laneth-10	Nonoxynol-8	Olive Oil PEG-6 Esters
Laneth-15	Nonoxynol-9	Olive Oil PEG-10 Esters
Laneth-16	Nonoxynol-10	Palm Acid
Laneth-4 Phosphate	Nonoxynol-11 ⁻	Palm Glyceride
Lanolin	Nonoxynol-12	Palmitic Acid
Laureth-1	Nonoxynol-13	Palmitoyi Inulin
Laureth-2	Nonoxynol-14	Palm Kernel Acid
Laureth-3	Nonoxynol-15	Peanut Oil PEG-6 Esters
Laureth-4	Nonoxynol-18	PEG-6 Almond Glycerides
Laureth-5	Nonoxynol-20	PEG-20 Almond Glycerides
Laureth-6	Nonoxynol-6 Phosphate	PEG-35 Almond Glycerides
Laureth-7	Nonoxynol-9 Phosphate	PEG-60 Almond Glycerides
Laureth-8	Nonoxynol-10 Phosphate	PEG-11 Avocado Glycerides
Laureth-9	Nonyl Nonoxynol-5	PEG-14 Avocado Glycerides
Laureth-10	Nonyl Nonoxynol-10	PEG-11 Babassu Glycerides
Laureth-11	Nonyl Nonoxynol-7 Phosphate	PEG-42 Babassu Glycerides
Laureth-12	Nonyl Nonoxynol-9 Phosphate	PEG-6 Beeswax
Laureth-13	Nonyl Nonoxynol-10 Phosphate	PEG-8 Beeswax
Laureth-14	Octoxyglyceryl Behenate	PEG-12 Beeswax
Laureth-15	Octoxyglyceryl Palmitate	PEG-20 Beeswax
Laureth-16	Octoxynol-1	PEG-8 Behenate
Laureth-3 Carboxylic Acid	Octoxynol-3	PEG-75 Beta-Sitosterol
Lauroyl Ethyl Glucoside	Octoxynol-5	PEG-8 Caprate
Lauroyi Lactylic Acid	Octoxynol-7	PEG-8 Caprylate
Laurtrimonium Chloride	Octoxynoi-8	PEG-8 Caprylate/Caprate
LauryImethicone Copolyol	Octoxynol-9	PEG-6 Caprylic/Capric Glycerides
Lauryl Phosphate	Octoxynol-10	PEG-8 Caprylic/Capric Glycerides
Lauryl Polyglyceryl-6 Cetearyl Glycol Ether Lecithin	Octoxynol-11	PEG-2 Castor Oil
	Octoxynol-12	PEG-3 Castor Oil
Magnesium PEG-3 Cocamide Sulfate Mango Seed Oil PEG-70 Esters	Octoxynol-13	PEG-4 Castor Oil
Mannitan Laurate	Octoxynol-16	PEG-5 Castor Oil
Mannitan Cleate	Octoxynol-20	PEG-8 Castor Oil
MEA-Dicetearyl Phosphate	Octoxynol-9 Carboxylic Acid	PEG-9 Castor Oil
Meroxapol 105	Octyl Dimethicone Ethoxy Glucoside	PEG-10 Castor Oil
Meroxapol 108	Octyldodeceth-2	PEG-11 Castor Oil
Meroxapol 174	Octyldodeceth-5	PEG-15 Castor Oil
Meroxapol 251	Octyldodeceth-10	PEG-16 Castor Oil
Meroxapol 252	Octyldodeceth-16	PEG-20 Castor Oil
Meroxapol 311	Octyldodeceth-20	PEG-25 Castor Oil
Meroxapol 312	Oleoyl Ethyl Glucoside	PEG-26 Castor Oil
Methylglucose Dioleate/Hydroxystearate	Oleth-2	PEG-29 Castor Oil
Mink Oil PEG-13 Esters	Oleth-3	PEG-30 Castor Oil
Myreth-2	Oleth-4	PEG-33 Castor Oil
Myreth-3	Oleth-5	PEG-35 Castor Oil
Myreth-4	Oleth-6	PEG-36 Castor Oil
Myreth-5	Oleth-7	PEG-8 C12-18 Ester
Myreth-10	Oleth-8	PEG-3 Cocamide
	Oleth-9	PEG-5 Cocamide
Myreth-3 Carboxylic Acid	Oleth-10	PEG-6 Cocamide
Myristamidopropyl Dimethylamine Dimethicone Copolyol Phosphate	Oleth-11	PEG-7 Cocamide
Vyristoyl Ethyl Glucoside	Oleth-12	PEG-11 Cocamide
Myzietowi Lachdio Apid	Oleth-15	PEG-20 Cocamide
Myristoyl Lactylic Acid	Oleth-16	PEG-2 Cocamine

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PEG-3 Cocamine	PEG-15 Glyceryl Oleate	PEG-10 Lanolate
PEG-5 Cocamine	PEG-20 Glyceryl Oleate	PEG-12 Lanolate
PEG-10 Cocamine	PEG-18 Glyceryl Oleate/Cocoate	PEG-15 Lanolate
PEG-15 Cocamine	PEG-15 Glyceryl Ricinoleate	PEG-20 Lanolate
PEG-20 Cocamine	PEG-20 Glyceryl Ricinoleate	PEG-5 Lanolin
	PEG-5 Glyceryl Sesquioleate	PEG-10 Lanolin
PEG-11 Cocoa Butter Glycerides	PEG-5 Glyceryl Stearate	PEG-20 Lanolin
PEG-75 Cocoa Butter Glycerides	PEG-10 Glyceryl Stearate	PEG-24 Lanolin
PEG-5 Cocoate	PEG-20 Glyceryl Stearate	
PEG-8 Cocoate	PEG-5 Glyceryl Triisostearate	PEG-27 Lanolin
PEG-9 Cocoate	PEG-15 Glyceryl Trioleate	PEG-30 Lanolin
PEG-10 Cocoate	PEG-25 Glyceryl Trioleate	PEG-40 Lanolin PEG-75 Lanolin Wax
PEG-15 Cocoate	PEG-140 Glyceryl Tristearate	PEG-3 Lauramide
PEG-9 Cocoglycerides	PEG-20 Hexadecenylsuccinate	PEG-5 Lauramide
PEG-10 Coconut Oil Esters	PEG-2 Hydrogenated Castor Oil	PEG-6 Lauramide
PEG-15 Cocopolyamine	PEG-5 Hydrogenated Castor Oil	PEG-2 Laurate
PEG-20 Corn Glycerides	PEG-6 Hydrogenated Castor Oil	PEG-2 Laurate SE
PEG-60 Corn Glycerides	PEG-7 Hydrogenated Castor Oil	PEG-4 Laurate
PEG-8 Dicocoate	PEG-10 Hydrogenated Castor Oil	PEG-6 Laurate
PEG-4 Diheptanoate	PEG-16 Hydrogenated Castor Oil	PEG-8 Laurate
PEG-2 Diisononanoate	PEG-20 Hydrogenated Castor Oil	PEG-9 Laurate
PEG-8 Diisostearate	PEG-25 Hydrogenated Castor Oil	PEG-10 Laurate
PEG-2 Dilaurate	PEG-30 Hydrogenated Castor Oil	PEG-12 Laurate
PEG-4 Dilaurate	PEG-35 Hydrogenated Castor Oil	PEG-14 Laurate
PEG-6 Dilaurate	PEG-40 Hydrogenated Castor Oil	PEG-6 Laurate/Tartarate .
PEG-8 Dilaurate	PEG-20 Hydrogenated Castor Oil Isostearate	PEG-8 Linoleate
PEG-12 Dilaurate	PEG-50 Hydrogenated Castor Oil Isostearate	PEG-8 Linolenate
PEG-20 Dilaurate	PEG-50 Hydrogenated Castor Oil Succinate	PEG-20 Mannitan Laurate
PEG-32 Dilaurate	PEG-20 Hydrogenated Castor Oil Triisostearate	PEG-75 Meadowfoam Oil
PEG-2 Dioctanoate	PEG-5 Hydrogenated Corn Glycerides	PEG-20 Methyl Glucose Distearate
PEG-4 Dioleate	PEG-8 Hydrogenated Fish Glycerides	PEG-20 Methyl Glucose Sesquicaprylate/
PEG-6 Dioleate	PEG-5 Hydrogenated Lanolin	Sesquicaprate
PEG-8 Dioleate	PEG-10 Hydrogenated Lanolin	PEG-20 Methyl Glucose Sesquilaurate
PEG-10 Dioleate	PEG-20 Hydrogenated Lanolin	PEG-20 Methyl Glucose Sesquistearate
PEG-12 Dioleate	PEG-24 Hydrogenated Lanolin	PEG-13 Mink Glycerides
PEG-20 Dioleate	PEG-20 Hydrogenated Palm Glycerides	PEG-8 Myristate
PEG-32 Dioleate	PEG-13 Hydrogenated Tallow Amide	PEG-20 Myristate
PEG-3 Dipalmitate	PEG-8 Hydrogenated Tallow Amine	PEG-4 Octanoate
PEG-13 Diphenylol Propane	PEG-10 Hydrogenated Tallow Amine	PEG-5 Octanoate
PEG-30 Dipolyhydroxystearate	PEG-15 Hydrogenated Tallow Amine	PEG-13 Octanoate
PEG-2 Distearate	PEG-20 Hydrogenated Tallow Amine	PEG-3 Oleamide
PEG-3 Distearate PEG-4 Distearate	PEG-15 Hydroxystearate	PEG-4 Oleamide
PEG-6 Distearate	PEG-6 Isolauryl Thioether	PEG-5 Oleamide
PEG-8 Distearate	PEG-8 Isolauryl Thioether	PEG-6 Oleamide
PEG-9 Distearate	PEG-10 Isolauryl Thioether	PEG-7 Oleamide
PEG-12 Distearate	PEG-6 Isopalmitate	PEG-9 Oleamide
PEG-20 Distearate	PEG-4 Isostearate	PEG-2 Oleamine
PEG-32 Distearate	PEG-6 Isostearate	PEG-5 Oleamine
PEG-8 Ditallate	PEG-8 Isostearate	PEG-15 Oleamine
PEG-12 Ditallate	PEG-10 Isostearate	PEG-2 Oleate
PEG-8 Di/Triricinoleate	PEG-12 Isostearate	PEG-2 Oleate SE
PEG-60 Evening Primrose Glycerides	PEG-15 Jojoba Acid	PEG-3 Oleate
PEG-7 Glyceryl Cocoate	PEG-26 Jojoba Acid	PEG-4 Oleate
PEG-12 Glyceryl Dioleate	PEG-40 Jojoba Acid	PEG-5 Oleate
PEG-15 Glyceryl Isostearate	PEG-15 Jojoba Alcohol	PEG-6 Oleate
PEG-20 Glyceryl Isostearate	PEG-26 Jojoba Alcohol	PEG-7 Oleate
PEG-8 Glyceryl Isostearate	PEG-3 Lanolate	PEG-8 Oleate
PEG-12 Glycond Louiste	PEG-4 Lanolate	PEG-9 Oleate
PEG-12 Glyceryl Laurate PEG-15 Glyceryl Laurate	PEG-5 Lanolate	PEG-10 Oleate
PEG-20 Glycond Louiste	PEG-6 Lanolate	PEG-11 Oleate
PEG-10 Glyceryl Laurate	PEG-7 Lanolate	PEG-12 Oleate
PEG-10 Glyceryl Oleate	PEG-8 Lanolate	PEG-14 Oleate

PEG-15 Oleate	PEG-75 Soy Glycerides	Poloxamer 331
PEG-16 Oleate	PEG-5 Soy Sterol	Poloxamer 333
PEG-20 Oleate	PEG-10 Soy Steroi	Poloxamer 401
PEG-4 Olivate	PEG-16 Soy Sterol	Poloxamer 402
PEG-2 Olive Glycerides	PEG-25 Soy Sterol	Poloxamer 403
PEG-6 Olive Glycerides	PEG-30 Soy Sterol	Poloxamer 407
PEG-10 Olive Glycerides	PEG-4 Stearamide	Poloxamer 105 Benzoate
PEG-40 Olive Glycerides	PEG-5 Stearamine	Poloxamine 304
PEG-18 Palm Glycerides	PEG-10 Stearamine	Poloxamine 504
PEG-6 Palmitate	PEG-15 Stearamine	Poloxamine 701
PEG-18 Palmitate	PEG-2 Stearate	Poloxamine 702
PEG-20 Palmitate	PEG-2 Stearate SE	Poloxamine 704
PEG-12 Palm Kernel Glycerides	PEG-3 Stearate	Poloxamine 707
PEG-45 Palm Kernel Glycerides	PEG-4 Stearate	Poloxamine 901
PEG-25 Phytosterol	PEG-5 Stearate	Poloxamine 904
PEG-4 Polyglyceryl-2 Distearate	PEG-6 Stearate	Poloxamine 1101
PEG-10 Polyglyceryl-2 Laurate	PEG-7 Stearate	Poloxamine 1102
PEG-4 Polyglyceryl-2 Stearate	PEG-8 Stearate	Poloxamine 1104
PEG-4-PPG-7 C13/C15 Alcohol	PEG-9 Stearate	Poloxamine 1301
PEG/PPG-150/30 Copolymer	PEG-10 Stearate	Poloxamine 1302
PEG-3/PPG-2 Glyceryl/Sorbitol Hydroxystearate/	PEG-12 Stearate	Poloxamine 1304
	PEG-14 Stearate	Poloxamine 1307
PEG-20-PPG-10 Glyceryl Stearate PEG-4 Proline Linoleate	PEG-18 Stearate	Poloxamine 1501
PEG-4 Proline Linolenate	PEG-20 Stearate	Poloxamine 1502
PEG-8 Propylene Glycol Cocoate	PEG-6 Stearylguanidine	Poloxamine 1504
PEG-4 Rapeseedamide	PEG-2 Sunflower Glycerides	Polyglyceryl-3 Beeswax
PEG-2 Ricinoleate	PEG-10 Sunflower Glycerides	Polyglyceryl-2 Caprate
PEG-7 Ricinoleate	PEG-13 Sunflower Glycerides PEG-4 Tallate	Polyglyceryl-3 Caprate
PEG-8 Ricinoleate	PEG-5 Tallate	Polyglyceryl-4 Caprate
PEG-9 Ricinoleate	PEG-8 Tallate	Polyglyceryl-2 Caprylate
PEG-45 Safflower Glycerides	PEG-10 Tallate	Polyglyceryl-3 Cetyl Ether
PEG-8 Sesquilaurate	PEG-12 Tallate	Polyglyceryl-3 Cocoate
PEG-8 Sesquioleate	PEG-14 Tallate	Polyglyceryl-4 Cocoate Polyglyceryl-10 Docalinglanta
PEG-50 Shea Butter	PEG-15 Tallate	Polyglyceryl-10 Decalinoleate Polyglyceryl-10 Decaoleate
PEG-60 Shea Butter Glycerides	PEG-16 Tallate	Polyglyceryl-10 Decastearate
PEG-6 Sorbitan Beeswax	PEG-20 Tallate	Polyglyceryl-3 Decyltetradecyl Ether
PEG-8 Sorbitan Beeswax	PEG-5 Tallow Amide	Polyglyceryl-3 Dicaprate
PEG-20 Sorbitan Beeswax	PEG-8 Tallow Amide	Polyglyceryl-3 Dicocoate
PEG-40 Sorbitan Diisostearate	PEG-20 Tallowate	Polyglyceryl-10 Didecanoate
PEG-2 Sorbitan Isostearate	PEG-5 Tricapryl Citrate	Polyglyceryl-2 Diisostearate
PEG-5 Sorbitan Isostearate	PEG-5 Tricetyl Citrate	Polyglyceryl-3 Diisostearate
PEG-20 Sorbitan Isostearate	PEG-5 Trilauryl Citrate	Polyglyceryl-10 Diisostearate
PEG-3 Sorbitan Oleate	PEG-5 Trimyristyl Citrate	Polyglyceryl-4 Dilaurate
PEG-6 Sorbitan Oleate	PEG-5 Tristearyl Citrate	Polyglyceryl Dimer Soyate
PEG-40 Sorbitan Perisostearate	PEG-6 Undecylenate	Polyglyceryl-2 Dioleate
PEG-40 Sorbitan Peroleate	PEG-8 Undecylenate	Polyglyceryl-3 Dioleate
PEG-3 Sorbitan Stearate	Pelargonic Acid	Polyglyceryl-6 Dioleate
PEG-6 Sorbitan Stearate	Pentaerythrityl Stearate	Polyglyceryl-10 Dioleate
PEG-30 Sorbitan Tetraoleate	Phosphatidylcholine	Polyglyceryl-6 Dipalmitate
PEG-40 Sorbitan Tetraoleate	Poloxamer 101	Polyglyceryl-10 Dipalmitate
PEG-60 Sorbitan Tetraoleate	Poloxamer 105	Polyglyceryl-2 Distearate
PEG-60 Sorbitan Tetrastearate	Poloxamer 122	Polyglyceryl-3 Distearate
PEG-20 Sorbitan Triisostearate	Poloxamer 123	Polyglyceryl-6 Distearate
PEG-40 Sorbitol Hexandeate	Poloxamer 124	Polyglyceryl-10 Distearate
PEG-50 Sorbitol Hexaoleate	Poloxamer 181	Polyglyceryl-10 Heptaoleate
PEG-30 Sorbitol Tetraoleate Laurate	Poloxamer 185	Polyglyceryl-10 Heptastearate
PEG-60 Sorbitol Tetrastearate	Poloxamer 212	Polyglyceryl-6 Hexaoleate
PEG-5 Soyamine PEG-8 Soyamine	Poloxamer 215	Polyglyceryl-10 Hexaoleate
PEG-10 Soyamine	Poloxamer 231	Polyglyceryl-3 Hydroxylauryl Ether
PEG-15 Soyamine PEG-15 Soyamine	Poloxamer 282	Polyglyceryl-2 Isopalmitate
· LO-10 Soyaninie	Poloxamer 284	Polyglyceryl-2 Isostearate
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Éstada esta esta esta esta esta esta esta est	Polyglyceryi-6 Tristearate	PPG-2-Ceteth-10
Polyglyceryl-3 Isostearate	•••	PPG-2-Ceteth-20
Polyglyceryl-4 Isostearate	Polyglyceryl-10 Tristearate	PPG-4-Ceteth-1
Polyglyceryl-4 isostearate	Polysorbate 20	
Polyglyceryl-6 Isostearate	Polysorbate 21	PPG-4-Ceteth-5
Polyglyceryl-10 Isostearate	Polysorbate 40	PPG-4-Ceteth-10
Polyglyceryl-2 Lanolin Alcohol Ether	Polysorbate 60	PPG-4-Ceteth-20
Polyglyceryl-2 Laurate	Polysorbate 61	PPG-5-Ceteth-20
Polyglyceryl-3 Laurate	Polysorbate 65	PPG-8-Ceteth-1
Polyglyceryl-4 Laurate	Polysorbate 80	PPG-8-Ceteth-2
Polyglyceryl-5 Laurate	Polysorbate 81	PPG-8-Ceteth-5
Polyglyceryl-6 Laurate	Polysorbate 85	PPG-8-Ceteth-10
Polyglyceryl-10 Laurate	Polysorbate 80 Acetate	PPG-8-Ceteth-20
Polyglyceryl-10 Lauryl Ether	Potassium Babassuate	PPG-5-Ceteth-10 Phosphate
	Potassium Castorate	PPG-10 Cetyl Ether Phosphate
Polyglyceryl-3 Methylglucose Distearate	Potassium Cetyl Phosphate	PPG-4 C13-15 Pareth-15
Polyglyceryl-10 Mono/dioleate	Potassium Cocoate	PPG-5 C9-15 Pareth-6
Polyglyceryi-3 Myristate		PPG-6 C12-15 Pareth-12
Polyglyceryl-10 Myristate	Potassium Cornate	PPG-6 C12-18 Pareth-11
Polyglyceryl-2 Oleate	Potassium Deceth-4 Phosphate	
Polyglyceryl-3 Oleate	Potassium Dimethicone Copolyol Phosphate	PPG-2-Deceth-10
Polyglyceryl-4 Oleate	Potassium Isosteareth-2 Phosphate	PPG-4-Deceth-4
Polyglyceryl-5 Oleate	Potassium Laurate	PPG-6-Deceth-4
Polyglyceryl-6 Oleate	Potassium Lauryl Hydroxypropyl Sulfonate	PPG-6-Deceth-9
Polyglyceryl-8 Oleate	Potassium Lauryl Sulfate	PPG-8 Deceth-6
Polyglyceryl-10 Oleate	Potassium Linoleate	PPG-6-Decyltetradeceth-12
Polyglyceryl-2 Oleyl Ether	Potassium Myristate	PPG-6-Decyttetradeceth-20
Polyglyceryl-4 Oleyl Ether	Potassium Octoxynol-12 Phosphate	PPG-6-Decyttetradeceth-30
Polyglyceryl-3 Palmitate	Potassium Oleate	PPG-13 Decyltetradeceth-24
Polyglyceryl-6 Palmitate	Potassium Olivate	PPG-20-Decyttetradeceth-10
Polyglyceryl-4-PEG-2 Cocamide	Potassium Palmate	PPG-24-Glycereth-24
Polyglyceryl-2-PEG-4 Stearate	Potassium Palmitate	PPG-66-Glycereth-12
Polyglyceryl-10 Pentalaurate	Potassium Peanutate	PPG-10 Glyceryl Ether
Polyglyceryl-10 Pentalinoleate	Potassium Rapeseedate	PPG-27 Glyceryl Ether
	Potassium Ricinoleate	PPG-2 Isoceteth-20 Acetate
Polyglyceryl-4 Pentaoleate	Potassium Soyate	PPG-2-Isodeceth-4
Polyglyceryl-6 Pentaoleate	Potassium Stearate	PPG-2-Isodeceth-6
Polyglyceryl-10 Pentaoleate	Potassium Tallate	PPG-2-Isodeceth-9
Polyglyceryl-3 Pentaricinoleate		PPG-2-Isodeceth-12
Polyglyceryl-6 Pentaricinoleate	Potassium Tallowate	PPG-3-Isosteareth-9
Polyglyceryl-10 Pentaricinoleate	Potassium Undecylenate	
Polyglyceryl-4 Pentastearate	PPG-2-Buteth-2	PPG-4 Jojoba Acid
Polyglyceryl-6 Pentastearate	PPG-4-Buteth-4	PPG-4 Jojoba Alcohol
Polyglyceryl-10 Pentastearate	PPG-5-Buteth-5	PPG-10 Jojoba Alcohol
Polyglyceryl-3 Polyricinoleate	PPG-7-Buteth-10	PPG-12-Laneth-50
Polyglyceryl-6 Polyricinoleate	PPG-9-Buteth-12	PPG-3-Laureth-9
Polyglyceryl-10 Polyricinoleate	PPG-10-Buteth-9	PPG-4 Laureth-2
Polyglyceryl-3 Ricinoleate	PPG-12-Buteth-12	PPG-4 Laureth-5
Polyglyceryl-2 Sesquiisostearate	PPG-12-Buteth-16	PPG-4 Laureth-7
Polyglyceryl-2 Sesquioleate	PPG-15-Buteth-20	PPG-5-Laureth-5
Polyglyceryl-2 Sesquistearate	PPG-17-Buteth-17	PPG-6-Laureth-3
Polyglyceryl-3 Stearate SE	PPG-20-Buteth-30	PPG-25-Laureth-25
Polyglyceryl-2 Stearate	PPG-24-Buteth-27	PPG-7 Lauryl Ether
Polyglyceryl-3 Stearate	PPG-26-Buteth-26	PPG-3-Myreth-3
Polyglyceryi-4 Stearate	PPG-28-Buteth-35	PPG-3-Myreth-11
Polyglyceryl-8 Stearate	PPG-25 Butyl Ether Phosphate	PPG-2-PEG-6 Coconut Oil Esters
	PPG-2-Ceteareth-9	PPG-20-PEG-20 Hydrogenated Lanolin
Polyglyceryl-10 Stearate	PPG-4-Ceteareth-12	PPG-2-PEG-11 Hydrogenated Lauryl Alcohol
Polyglyceryl-2 Tetraisostearate		Ether
Polyglyceryl-6 Tetraoleate	PPG-10-Ceteareth-20	PPG-12-PEG-50 Lanolin
Polyglyceryl-10 Tetraoleate	PPG-1-Ceteth-1	PPG-12-PEG-50 Landin Oil
Polyglyceryl-2 Tetrastearate	PPG-1-Ceteth-5	
Polyglyceryl-2 Triisostearate	PPG-1-Ceteth-10	PPG-40-PEG-60 Lanolin Oil
Polyglyceryl-3 Triisostearate	PPG-1-Ceteth-20	PPG-1-PEG-9 Lauryl Glycol Ether
Polyglyceryl-10 Trioleate	PPG-2-Ceteth-1	PPG-3-PEG-6 Oleyl Ether
Polyglyceryl-4 Tristearate	PPG-2-Ceteth-5	PPG-23-PEG-4 Trimethylolpropane

Polyglyceryl-4 Tristearate

PPG-68-PEG-10 Trimethylolpropane PPG-8 Polyglyceryl-2 Ether PPG-23-Steareth-34 PPG-1 Trideceth-6 PPG-4 Trideceth-6 Propylene Glycol Behenate Propylene Glycol Capreth-4 Propylene Glycol Caprylate Propylene Glycol Cocoate Propylene Glycol Hydroxystearate Propylene Glycol Isodeceth-4 Propylene Glycol Isodeceth-12 Propylene Glycol isostearate Propylene Glycol Laurate Propylene Glycol Laureth-6 Propylene Glycol Linoleate Propylene Glycol Linolenate Propylene Glycol Myristate Propylene Glycol Oleate Propylene Glycol Oleate SE Propylene Glycol Oleth-5 Propylene Glycol Ricinoleate Propylene Glycol Soyate Propylene Glycol Stearate Propylene Glycol Stearate SE Raffinose Myristate Raffinose Oleate Rapeseed Glyceride Safflower Glyceride Sodium Babassuate Sodium Beeswax Sodium Behenovi Lactvlate Sodium Caproyl Lactylate Sodium Caprylate Sodium Capryleth-9 Carboxylate Sodium Castorate Sodium Ceteth-13 Carboxylate Sodium Coceth Sulfate Sodium Cocoate Sodium Coco-Glucoside Tartrate Sodium Coco/Hydrogenated Tallow Sulfate Sodium Cocoyl Lactylate Sodium Diceteareth-10 Phosphate Sodium Isostearate Sodium Isostearoyl Lactate Sodium Isostearoyi Lactylate Sodium Laurate Sodium Laureth-4 Phosphate Sodium Laureth Sulfate Sodium Lauroyl Lactylate Sodium Lauryl Phosphate

Sodium Linoleate

Sodium Myristate

Sodium Oleate

Sodium Myreth Sulfate

Sodium Oleoyl Lactylate

Sodium Oleth-7 Phosphate

Sodium Oleth-8 Phosphate

Sodium/MEA Laureth-2 Sulfosuccinate

Sodium Palmate Sodium Palmitate Sodium Palm Kernelate Sodium Peanutate Sodium Phthalate Stearyl Amide Sodium Rapeseedate Sodium Ricinoleate Sodium Sovate Sodium Stearate Sodium Steareth-4 Phosphate Sodium Stearoyl Lactylate Sodium Stearyl Sulfate Sodium Trideceth Sulfate Sodium Tridecyl Sulfate Sodium Undecylenate Sorbeth-2 Cocoate Sorbeth-6 Hexastearate Sorbeth-3 Isostearate Sorbitan Caprylate Sorbitan Cocoate Sorbitan Diisostearate Sorbitan Dioleate Sorbitan Distearate Sorbitan Isostearate Sorbitan Laurate Sorbitan Oleate Sorbitan Olivate Sorbitan Palmitate Sorbitan Sesquiisostearate Sorbitan Sesquioleate Sorbitan Sesquistearate Sorbitan Stearate Sorbitan Triisostearate Sorbitan Trioleate Sorbitan Tristearate Soy Acid Steareth-2 Steareth-3 Steareth-4 Steareth-5 Steareth-6 Steareth-7 Steareth-8 Steareth-10 Steareth-11 Steareth-13 Steareth-14 Steareth-15 Steareth-16 Steareth-20 Steareth-21 Stearic Acid Stearoyl Inulin Stearoyl Lactylic Acid Stearoyl Leucine Stearyl Alcohol Sucrose Cocoate Sucrose Dilaurate

Sodium Olivate

Sucrose Distearate Sucrose Laurate Sucrose Myristate Sucrose Oleate Sucrose Palmitate Sucrose Polybehenate Sucrose Polycottonseedate Sucrose Polylaurate Sucrose Polylinoleate Sucrose Polyoleate Sucrose Polypaimate Sucrose Polysoyate Sucrose Polystearate Sucrose Ricinoleate Sucrose Stearate Sunflower Seed Oil Glyceride Tall Oil Acid **Tallow Acid** Talloweth-6 **Tallow Glyceride**

TEA-Dimethicone Copolyol Phosphate
TEA-Isostearate
TEA-Laneth-5 Sulfate
TEA-Laurate
TEA-Lauroyl Lactylate
TEA-Myristate
TEA-Oleate
TEA-Oleyl Sulfate
TEA-Palmitate
TEA-Stearate
TEA-Tallate
TIPA-Stearate
Triceteareth-4 Phosphate
Triceteth-5 Phosphate

TEA-Canolate

Trideceth-2
Trideceth-3
Trideceth-5
Trideceth-6
Trideceth-7
Trideceth-8
Trideceth-9
Trideceth-10
Trideceth-11
Trideceth-12
Trideceth-15
Trideceth-20

Trideceth-3 Phosphate
Trideceth-6 Phosphate
Trideceth-10 Phosphate
Triisostearin PEG-6 Esters
Trilaneth-4 Phosphate
Triolein PEG-6 Esters
Trioleth-8 Phosphate
Undecanoic Acid
Undeceth-3
Undeceth-5

Undeceth-7

Undeceth-9
Undecyleneth-6

Undecylenic Acid Vegetable Glycerides Phosphate

Wheat Germ Acid

Surfactants - Foam Boosters

Surfactants - Foam Boosters, are used in cosmetics to increase the foaming capacity of *Surfactants - Cleansing Agents*, or to stabilize foams in general. Foam boosters are substances which increase the surface viscosity of the liquid which surrounds the individual bubbles in a foam. These agents are commonly used in shaving soaps, shampoos, bubble baths, liquid soaps, mousses, or aerosol-dispensed foams. *Film Formers* or *Viscosity-Increasing Agents* are sometimes used as foam boosters. The listing below is generally limited to foam boosters which can also be classified as

Acetamide MEA
Almondamide DEA
Almondamidopropylamine Oxide
Almondamidopropyl Betaine
Apricotamide DEA
Apricotamidopropyl Betaine
Avocadamidopropyl Betaine
Avocadamidopropyl Betaine
Azelamide MEA
Babassuamide DEA
Babassuamidopropylamine Oxide
Babassuamidopropyl Betaine

Behenamide DEA
Behenamide MEA
Behenamidopropyl Betaine
Behenamine Oxide
Behenyl Betaine
Canolamidopropyl Betaine

Capramide DEA
Capryl/Capramidopropyl Betaine

Carnitine
Cetearyl Alcohol
Cetyl Alcohol
Cetyl Betaine
Cocamide DEA
Cocamide MEA
Cocamide MIPA
Cocamidoethyl Betaine
Cocamidopropyl Amine Oxide
Cocamidopropyl Betaine
Cocamidopropyl Betaine

Cocamidopropyl Hydroxysultaine Cocamine Oxide

Cocoamphodipropionic Acid Cocobetainamido Amphopropionate Coco-Betaine

Coco-Hydroxysultaine
Coco-Morpholine Oxide
Coconut Alcohol

Coco/Oleamidopropyl Betaine

Coco-Sultaine
Cocoyl Sarcosinamide DEA
DEA-Cocoamphodipropionate
DEA-Lauraminopropionate

Decyl Alcohol

Decylamine Oxide Decyl Betaine

Decyttetradecylamine Oxide Diethanolaminooleamide DEA

Dihydroxyethyl C8-10 Alkoxypropylamine Oxide Dihydroxyethyl C9-11 Alkoxypropylamine Oxide Dihydroxyethyl C12-15 Alkoxypropylamine Oxide

Dihydroxyethyl Cocamine Oxide Dihydroxyethyl Lauramine Oxide Dihydroxyethyl Stearamine Oxide Dihydroxyethyl Tallowamine Oxide Dimethicone Propyl PG-Betaine Disodium Caproamphodiacetate

Disodium Caproamphodipropionate Disodium Capryloamphodiacetate Disodium Capryloamphodipropionate

Disodium Cetearyl Sulfosuccinate Disodium Cocamido MIPA-Sulfosuccinate Disodium Cocamido PEG-3 Sulfosuccinate Disodium Cocaminopropyl Iminodiacetate

Disodium

Cocoamphocarboxyethylhydroxypropylsulfonate Disodium Cocoamphodiacetate

Disodium Cocoamphodipropionate
Disodium C12-15 Pareth Sulfosuccinate
Disodium Deceth-5 Sulfosuccinate
Disodium Deceth-6 Sulfosuccinate

Disodium Hydrogenated Cottonseed Glyceride Sulfosuccinate

Disodium Isodecyl Sulfosuccinate

Disodium Isostearamido MEA-Sulfosuccinate Disodium Isostearamido MIPA-Sulfosuccinate

Disodium Isostearoamphodiacetate
Disodium Isostearoamphodipropionate
Disodium Isostearyl Sulfosuccinate
Disodium Laneth-5 Sulfosuccinate
Disodium Lauramido MEA-Sulfosuccinate
Disodium Lauramido PEG-2 Sulfosuccinate
Disodium Lauramido PEG-2 Sulfosuccinate
Disodium Lauramido PEG-2 Sulfosuccinate

Disodium Laureth-S Carboxyamphodiar Disodium Laureth-S Sulfosuccinate Disodium Laureth-6 Sulfosuccinate Disodium Laureth-9 Sulfosuccinate Disodium Laureth-12 Sulfosuccinate Disodium Lauroamphodiacetate Disodium Lauroamphodipropionate

Disodium Lauryl Sulfosuccinate

Disodium Myristamido MEA-Sulfosuccinate Disodium Nonoxynol-10 Sulfosuccinate

Disodium Oleamido MEA-Sulfosuccinate

Disodium Oleamido MIPA-Sulfosuccinate Disodium Oleamido PEG-2 Sulfosuccinate

Disodium Oleoamphodipropionate

Disodium Oleth-3 Sulfosuccinate Disodium Oleyl Sulfosuccinate

Disodium Palmitamido PEG-2 Sulfosuccinate

Disodium Palmitoleamido PEG-2 Sulfosuccinate Disodium PEG-4 Cocamido MIPA-Sulfosuccinate

Disodium PPG-2-Isodeceth-7 Carboxyamphodiacetate

Disodium Ricinoleamido MEA-Sulfosuccinate

Disodium Stearamido MEA-Sulfosuccinate Disodium Stearoamphodiacetate Disodium Stearyl Sulfosuccinamate

Disodium Stearyl Sulfosuccinamate
Disodium Stearyl Sulfosuccinate
Disodium Tallamido MEA-Sulfosuccinate

Disodium Tallowamido MEA-Sulfosuccinate
Disodium Tallowamphodiacetate

Disodium Tallow Sulfosuccinamate
Disodium Tridecylsulfosuccinate

Disodium Undecylenamido MEA-Sulfosuccinate Disodium Undecylenamido PEG-2 Sulfosuccinate

Disodium Wheat Germamido MEA-

Sulfosuccinate

Disodium Wheat Germamido PEG-2 Sulfosuccinate

Disodium Wheatgermamphodiacetate Di-TEA-Oleamido PEG-2 Sulfosuccinate

Ditridecyl Sodium Sulfosuccinate

Erucamidopropyl Hydroxysultaine Hydrogenated Palm Kernel Amine Oxide

Hydrogenated Tallow Alcohol Hydrogenated Tallowamide DEA Hydrogenated Tallowamine Oxide Hydrogenated Tallow Betaine

Hydroxyethyl Carboxymethyl Cocamidopropylamine

Hydroxyethyl Hydroxypropyl C12-15

Alkoxypropylamine Oxide Hydroxystearamide MEA Isostearamide DEA

Isostearamide MEA Isostearamide MIPA

Isostearamidopropylamine Oxide Isostearamidopropyl Betaine

Isostearamidopropyl Morpholine Oxide

Lactamide MEA Lanolinamide DEA Lauramide DEA Lauramide MEA Lauramide MIPA

Lauramide/Myristamide DEA Lauramidopropylamine Oxide Lauramidopropyl Betaine

Lauramine Oxide

Lauroamphodipropionic Acid

Lauryl Alcohol Lauryl Betaine

Lauryl Hydroxysultaine

Lauryl Sultaine Lecithinamide DEA Linoleamide DEA Linoleamide MEA Linoleamide MIPA Methyl Morpholine Oxide

Milkamidopropyl Amine Oxide Milkamidopropyl Betaine

Minkamide DEA

Minkamidopropylamine Oxide Minkamidopropyl Betaine

Myristamide DEA Myristamide MEA Myristamide MIPA

Myristamidopropylamine Oxide Myristamidopropyl Betaine Myristamine Oxide

Myristaminopropionic Acid

Myristyl Alcohol

Myristyl Betaine

Myristyl/Cetyl Amine Oxide Oleamide DEA

Oleamide MEA Oleamide MIPA

Oleamidopropylamine Oxide Oleamidopropyl Betaine Oleamidopropyl Hydroxysultaine

Oleamine Oxide Oleyl Betaine Olivamide DEA

Olivamidopropylamine Oxide Olivamidopropyl Betaine

Palmamide DEA Palmamide MEA Palmamide MIPA Palmamidopropyl Betaine

Palmitamide DEA Palmitamide MEA

Palmitamidopropylamine Oxide

Palmitamidopropyl Betaine

Palmitamine Oxide

Palm Kernel Alcohol Palm Kernelamide DEA Palm Kernelamide MEA Palm Kernelamide MIPA

Palm Kernelamidopropyl Betaine

Peanutamide MEA Peanutamide MIPA PEG-3 Cocamide

PEG-2 Hydrogenated Tallow Amine

PEG-3 Lauramide PEG-2 Lauramine PEG-3 Lauramine Oxide PEG-3 Oleamide PEG-2 Oleamine

PEG-2 Soyamine PEG-2 Stearamine

Potassium Dihydroxyethyl Cocamine Oxide

Phosphate Ricinoleamide DEA Ricinoleamide MEA

Ricinoleamide MIPA Ricinoleamidopropyl Betaine

Sesamide DEA

Sesamidopropylamine Oxide

Sesamidopropyl Betaine Sodium Borageamidopropyl PG-Dimonium

Chloride Phosphate Sodium C8-10 Alkyl Sulfate Sodium Caproamphoacetate

Sodium Caproamphohydroxypropylsulfonate

Sodium Caproamphopropionate Sodium Capryloamphoacetate

Sodium Capryloamphohydroxypropylsulfonate

Sodium Capryloamphopropionate Sodium Cocoamphoacetate

Sodium Cocoamphohydroxypropylsulfonate

Sodium Cocoamphopropionate

Sodium Coco PG-Dimonium Chloride Phosphate

Sodium Cornamphopropionate Sodium Decyl Sulfate

Sodium Isostearoamphoacetate Sodium Isostearoamphopropionate Sodium Lauraminopropionate Sodium Lauriminodipropionate

Sodium Lauroamphoacetate Sodium Lauroamphohydroxypropylsulfonate Sodium Lauroampho PG-Acetate Phosphate

Sodium Lauroamphopropionate

Sodium/MEA Laureth-2 Sulfosuccinate

Sodium Myristoamphoacetate Sodium Oleoamphoacetate

Sodium Oleoamphohydroxypropylsulfonate

Sodium Oleoamphopropionate Sodium Ricinoleoamphoacetate Sodium Stearoamphoacetate

Sodium Stearoamphohydroxypropylsulfonate

Sodium Stearoamphopropionate Sodium Tallamphopropionate Sodium Tallowamphoacetate

Sodium Tallowate

Sodium Undecylenoamphoacetate Sodium Undecylenoamphopropionate Sodium Wheat Germamphoacetate

Soyamide DEA

Soyamidopropylamine Oxide Soyamidopropyl Betaine

Stearamide AMP Stearamide DEA

Stearamide DEA-Distearate Stearamide DIBA-Stearate

Stearamide MEA

Stearamide MEA-Stearate Stearamide MIPA

Stearamidopropylamine Oxide Stearamidopropyl Betaine

Stearamine Oxide Stearyl Alcohol Stearyl Betaine Tallamide DEA Tallowamide DEA Tallowamide MEA

Tallowamidopropylamine Oxide Tallowamidopropyl Betaine

Tallowamidopropyl Hydroxysultaine

Tallowamine Oxide Tallow Betaine

TEA-Lauraminopropionate TEA-Myristaminopropionate Trideceth-2 Carboxamide MEA

Trisodium Lauroampho PG-Acetate Chloride

Phosphate

Undecylenamide DEA Undecylenamide MEA

Undecylenamidopropylamine Oxide Undecylenamidopropyl Betaine

Wheat Germamide DEA

Wheat Germamidopropylamine Oxide Wheat Germamidopropyl Betaine

Surfactants - Hydrotropes

Surfactant - Hydrotropes are surfactants which have the ability to enhance the water solubility of another surfactant. Prominent members of this group are short chain alkyl aryl sulfonates, sulfosuccinates, and some nonionic surfactants.